

STAT

Handbook of Standard
Letter Symbols

pp. 215 to 408

(1)	(2)	(3)	(4)	(5)	(6)
Thrust, horizontal	H		GOST 2971-45	Construction mechanics	
Distance from reinforcement to the nearest side of section	a		OST 90054-40	Building construction	
Distance from lateral mark of grid to the meridian	f		OST VKS 6203	Astronomy	
Distance of two heavenly bodies of respective mass m_i and m_j , mutual	Δ_i ,		OST VKS 6203	Astronomy	
Distance, rear vertex focal	v'		Distance from rear vertex to rear focus	OST VKS 6145	Optics

(1)	(2)	(3)	(4)	(5)	(6)
Distance, zenith	z		OST VKS 6345	Geodesy and cartography	
Distance of aerial photography camera, focal	f_k		OST VKS 7144	Aerial photography	
Distance between vertex of adjacent refractive surfaces, reduced; re- duced thickness of lens	δ		OST VKS 6145	Optics	
		$\delta = \frac{d}{n}$			
		where:			
		d - axial thickness of lens			
		n - index of refraction.			
		Reduced distances between vertexes of 1st and 2nd surfaces, 2nd and 3rd....			
		k and k+1 surfaces, are denoted by $\delta_1, \delta_2, \dots, \delta_k$			

(1)	(2)	(3)	(4)	(5)	(6)
Distance between two points, horizontal	d			OST VKS 6345	Geodesy and cartography
Distance between rows of: rivets, keys, pins, etc	e			OST 90054-40	Building construction
Distance between points A and B of a link	L_{AB} , l_{AB}			GOST 2899-45	Theory of mechanisms
Distance between wing chords	h	Measured between pressure center of wings, perpendicularly to the velocity v		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Distance between centers of deflecting and deflected magnets	R			CST VKS 7082	Terrestrial magnetism

(1)	(2)	(3)	(4)	(5)	(6)
Distance of heavenly body at moment t_i , geocentric	Δ_i			OST VKS 6203	Astronomy
Distance of heavenly body, reduced geocentric	ρ_i	$\rho_i = \Delta_i \cos \beta_i$	where:	OST VKS 6203	Astronomy
		Δ_i - geocentric distance of heavenly body at moment t_i ,			
		β_i - latitude of planet at moment t_i			
Distance of neutral axis of section from terminal compressed thread	y			OST 90054-40	Building construction
Distance of objective of aerial photographic apparatus, focal	f'			OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Distance of optical system, rear (principal) focal	f'		Rear focal distances of 1st, 2nd...k-th system are denoted by: f'_1 , f'_2 ... f'_k	OST VKS 6145	Optics
Distance of optical system, forward (principal) focal	f		Forward focal distances of 1st, 2nd...k-th system are denoted by: f_1 , f_2 ... f_k	OST VKS 6145	Optics
Distance from airdrome to area photographed	D_s			OST VKS 7144	Aerial photography
Distance from rear apex to rear focus; rear apex focal distance	v'			OST VKS 6145	Optics
Distance from image of point to optical axis	y'			OST VKS 6145	Optics

(1)	(2)	(3)	(4)	(5)	(6)
Distance from forward vertex to forward focus; forward vertex focal distance	v			OST VKS 6145	Optics
Distance from point to optical axis	y			OST VKS 6145	Optics
Distance from center of gravity of airplane to hinges of tail group	L			OST 1075-41	Hydro-aerodynamic computations in air- craft construction
Distance from center of gravity of airplane to hinges of horizontal tail group	<u>L</u> <u>2.0</u>			OST 1075-41	Hydro-aerodynamic computations in air- craft construction
Distance along the optical axis between vertex of	d			OST VKS 6145	Optics

(1)

(2)

(3)

(4)

(5)

(6)

first and last refractive
surfaces; axial thickness
of lens or system

Distances along the optical $d_1, d_2 \dots$
axis between vertex of $\dots d_k$
adjoining refractive
surfaces, 1st and 2nd,
2nd and 3rd...k and k+l

OST VKS 6145 Optics

Distance along the optical Δ
axis from near (principal)
focus of first system to the
forward (principal) focus of
second system; optical interval

OST VKS 6145 Optics

Distance along the optical p
axis from object and image
to aperture stop

OST VKS 6145 Optics

(1)	(2)	(3)	(4)	(5)	(6)
Distance along the optical axis from object and image to forward princi- pal point	a			OST VKS 6145	Optics
Distance along the optical axis from object and image to the forward principal focus	x			OST VKS 6145	Optics
Distance along the optical axis from object and image to the field stop	p'			OST VKS 6145	Optics
Distance along the optical axis from object and image to the rear princi- pal point	a'			OST VKS 6145	Optics

(1)

Distance along the optical
axis from object and
image to the rear (princi-
pal) focus

(2)

X'

(3)

Distance along the optical
axis from point of inter-
section of issuing ray with
optical axis to vertex of
refractive surface

(4)

OST VKS 6145

(6)

Optics

Distances along the optical
axis from intersection point
of issuing ray with optical
axis to the vertexes of 1st,
2nd ... k-th, refractive
surfaces are denoted by:
 $s'_1, s'_2 \dots s'_k$

Distance along the optical
axis from point of inter-
section of incident ray
with optical axis to vertex

Distances along the optical
axis from intersection point
of incident ray with optical
axis to the vertexes of 1st,

Optics

(1)	(2)	(3)	(4)	(5)	(6)
of refracting surface			2nd ... k-th refracting surfaces are denoted by:		
			$s_1, s_2 \dots s_k$		
Distance, forward vertex focal	v		Distance from forward vertex to forward focus	OST VKS 6145	Optics
Distance of perigee of parabolic orbit from the sun	q			OST VKS 6203	Astronomy
Distance of perigee from rising node, angular	ω			OST VKS 6203	Astronomy
Distance of planet at meridian, zenith	z_m			OST VKS 6203	Astronomy
Distance of planet, zenith	z			OST VKS 6203	Astronomy

(1)	(2)	(3)	(4)	(5)	(6)
Distance of planet in astronomical units, geocentric	Δ			OST VKS 6203	Astronomy
Distance, focal	f			GOST 1493-42	General technical quantities
Expenditure of aerial photographs for the entire area photo- graphed ($S \Sigma$), total	$n \Sigma$			OST VKS 7144	Aerial photography
Discharge, weight	G			GOST 2970-45	Hydromechanics
Expenditure of fuel and oil, hourly	q_n			GOST VKS 7144	Aerial photography
Expenditure of flight hours, total	$T \Sigma$			OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Discharge, mass	M		GOST 2970-45	Hydromechanics	
Discharge per width unit of flow	q		GOST 2970-45	Hydromechanics	
Discharge, volume	Q		GOST 2970-45	Hydromechanics	
Reactions of supports in spatial system: component reactions (on coordinate axes X, Y, Z)	X,Y,Z		GOST 2971-45	Construction mechanics	
Reaction of support: vertical component	V	A	OST 90054-40	Building constructions	
Reaction of support: horizontal component	H		OST 90054-40	Building constructions	

(1)	(2)	(3)	(4)	(5)	(6)
Reaction of support in plane system: vertical component of reaction	V, A			GOST 2971-45	Construction mechanics
Reaction of support in plane system: hori- zontal component of reaction	H			GOST 2971-45	Construction mechanics
Reaction of support in plane system: total reaction	R	A,B, C...		GOST 2971-45	Construction mechanics
Reaction of support in spatial system: total reaction	R			GOST 2971-45	Construction mechanics
Reaction of support, total	R			OST 90054-40	Building constructions

(1)	(2)	(3)	(4)	(5)	(6)
Refraction	ρ			OST VKS 6203	Astronomy
Refraction of lens, principal	D_u			OST VKS 6145	Optics
Refraction of lens, rear vertex	V_2			OST VKS 6145	Optics
Refraction of lens, forward vertex	V_1			OST VKS 6145	Optics
Refraction of infinitely thin lens	D_o			OST VKS 6145	Optics
Refraction of second surface of lens	D_2			OST VKS 6145	Optics
Refraction of first surface of lens	D_1			OST VKS 6145	Optics

(1)	(2)	(3)	(4)	(5)	(6)
Convergence of meridians on plane	γ			OST VKS 6345	Geodesy and cartography
Convergence of meridians on spheroid	γ_s			OST VKS 6345	Geodesy and cartography
Luminosity; luminousness	R			OST VKS 7637	Light measurements
Light sensitivitiy	S			GOST 2653-44	Sensitometry
Light sensitivitiy monochromatic; special light sensitivity	S_λ			GOST 2653-44	Sensitometry
Light sensitivitiy, total	S			GOST 2653-44	Sensitometry
Light sensitivitiy ^d determine _a on basis of	S_o			OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
conventional					
quantity of difference					
between density and fog					
Light sensitivity,	s_{λ}			GOST 2653-44	Sensitometry
spectral; monochromatic					
light sensitivity					
Light sensitivity,	s_{ϕ}			GOST 2653-44	Sensitometry
effective					
Displacement, relative;	γ			GOST 2971-45	Construction mechanics
angle of displacement					
				GOST 90054-40	Building constructions
Displacement of phase	ϕ			GOST 1494-42	Electrotechnics
between current and					
voltage; phase difference					
of voltage and current					

(1)	(2)	(3)	(4)	(5)	(6)
Series of characteristic spectrum of x-rays	K, L, M, N		Individual lines of characteristic X-ray spectrum are denoted according to Siegbahn by: K _{α1} , K _{α2} ... K _{β1} ... L _{α1} ... L _{β1} ... $\alpha = \frac{a-b}{a}$ where a and b, major (a) and minor (b) half axes of terrestrial spheroid	OST VKS 6350	X-ray technology
Oblate of terrestrial spheroid	α			CST VKS 6203 OST VKS 6345	Astronomy Geodesy and cartography
Force	F, Q			CST 2970-45	Hydromechanics
Force	P, F	Q, R		GOST 1493-42	General technical quantities
Force	P, Q, R			GOST 2971-45	Construction mechanics
Force	P			OST 90054-40	Building constructions

(1)	(2)	(3)	(4)	(5)	(6)
Force	P, Q, F			GOST 2899-45	Theory of mechanisms
Force	P, F	Q, R	Projections of force upon coordinate axes, x, y, z are denoted either by F_x , F_y , F_z or by the letters X, Y, Z	OST 2932	Theoretical mechanics
Force, aerodynamic	R		$R = c_R q S$ $R = \sqrt{x^2 + y^2 + z^2}$ wherein: c_R - coefficient of aerodynamic force (total) q - velocity thrust (dynamic pressure) S - carrying area of wings X, Y, Z components of aerodynamic force	GOST 1075-41	Hydro-aerodynamic computations in aircraft construction

(1)	(2)	(3)	(4)	(5)	(6)
Force, lateral	Z	$Z = c_z q S$ where: c_z - coefficient of lateral force, q - velocity thrust (dynamic pressure) S - carrying area of wings	GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Force, hydrodynamic lift	Y		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Force of pressure	P		GOST 2970-45	Hydromechanics	
Force of ground pressure; ground pressure	R		OST 90054-40	Building constructions	
Force, kinetic; kinetic energy	T		GOST 2971-45	Construction mechanics	

(1)	(2)	(3)	(4)	(5)	(6)
Force, Kinetic; kinetic energy	E	T	GOST 2899-45	Theory of mechanisms	
Forces of inertia	P _u , Q _u , F _u		GOST 2899-45	Theory of mechanisms	
Force, tangential	T		GOST 2970-45	Hydromechanics	
Force, coercive; reluctivity	H _c		GOST VKS 6896	Ferromagnetism	
Force, magnetomotive	F		GOST 1494-42	Electrotechnics	
Force per unit of surface; tension; pressure	p, F		GOST VKS 6394	Thermodynamics	
Force, normal	Y _l	Coordinate axes - body axes	GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	

(1)	(2)	(3)	(4)	(5)	(6)
Force, normal	N			GOST 2970-45	Hydromechanics
Force, intersecting; transversal force	Q			OST 90054-40	Building constructions
Force, lift	Y	$Y = c_y q S$ where: c_y - coefficient of lift force q - velocity thrust (dynamic pressure) S - carrying area of wings		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Force, total hydrodynamic	R			GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Force, transversal	Z ₁	Coordinate axes, body		GOST 1075-41	Hydro-aerodynamic

(1)	(2)	(3)	(4)	(5)	(6)
			axes		computations in aircraft construction
Force, transversal	Q			GOST 2971-45	Construction mechanics
Force, transversal; intersecting force	Q			OST 90054-40	Building construction
Force of flight velocity	X		Coordinate axes - wind axes	GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Force, longitudinal	N			GOST 2971-45	Construction mechanics
Force of airplane, lift	P			OST 90054-40	Building constructions
Intensity of light	I			OST VKS 7144	Aerial photography
				GOST 1493-42	General technical quantities

(1)	(2)	(3)	(4)	(5)	(6)
Intensity of light;	I			OST 2653-44	Sensitometry
intensity of light of punctal source				OST VKS 7637	Light measurements
Intensity of light of radiant flux; angular density	I			OST VKS 6261	Measurement of temperatures
Intensity of light of mono- chromatic radiant flux of wave length λ ; angular density of wave length	I_{λ}			OST VKS 6261	Measurement of temperatures
Intensity of light of punctal source; intensity of light	I			OST VKS 7637	Light measurements

(1)	(2)	(3)	(4)	(5)	(6)
Intensity of light, specific	J			OST VKS 7637	Light measurements
Force, shearing	T			OST 90054-40	Building constructions
Force of system, kinetic	T			OST VKS 6203	Astronomy
Force of resistance, tangential	Q ₁	Coordinate axes, body axes		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Force, tangential	X ₁	Coordinate axes, body axes		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Force of thermo couple, thermo electromotive	e _t			OST VKS 6261	Measurement of temperatures

(1)	(2)	(3)	(4)	(5)	(6)
Force, thermo electro-motive	et		CST VKS 7820	Measurement of temperatures	
Intensity of current; current	i	Working (effective) value of current is denoted by the capital letter I	GOST 1494-42	Electrotechnics	
Force, braking	T		CST 90054-40	Building constructions	
Force of friction, specific	T'		GOST 2970-45	Hydromechanics	
Force of thrust of propeller - engine unit	F		CST VKS 7144	Aerial photography	
Force, electromotive	e	Working (effective) value of electromotive force is denoted by capital letter E	GOST 1494-42	Electrotechnics	

(1)	(2)	(3)	(4)	(5)	(6)
Deviation, magnetic	Δ_M		OST VKS 7144	Aerial photography	
Deviation, magnetic	D		OST VKS 7082	Terrestrial magnetism	
Deviation of compass needle	δ		OST VKS 6345	Geodesy and carto- graphy	
Inclination of planet	δ		OST VKS 6203	Astronomy	
Sliding, relative	S		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Velocity	v, u, w		GOST 2970-45	Hydromechanics	
Velocity	v		OST 2932	Theoretical mechanics	
Velocity, vertical	V_y		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	

(1)	(2)	(3)	(4)	(5)	(6)
Velocity of wind	U			GOST VKS 7144	Aerial photography
Velocity of wind:		W		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
velocity of flow				GOST 2899-45	Theory of mechanisms
velocity of second link with respect to the first link, angular	w_{z1}			GOST 2899-45	Theory of mechanisms
velocity of second link with respect to the first link in forward motion (forward couple 2, 1)	v_{21}			GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
velocity of horizontal flight for all altitudes of flight, maximum	V_{max}				

(1)	(2)	(3)	(4)	(5)	(6)
Velocity of horizontal flight for all alti- tudes of flight, maxi- mum ground	v_o max		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Velocity of motion of point B with respect to A of the same link	v_{BA}		GOST 2899-45	Theory of mechanisms	
Velocity of motion of film in re-winding	v_f		OST VKS 7146	Aerial photography	
Velocity of fluid in ascending pipe	v_h		OST VKS 6129	Sanitation	
Velocity of link, angular	w		GOST 2899-45	Theory of mechanisms	

(1)	(2)	(3)	(4)	(5)	(6)
Velocity of sound	a		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Velocity of fluid in suction pipe	v_s		OST VKS 6128	Hydrotechnics	
Velocity, cruising	V_k		OST VKS 71h4	Aerial photography	
Velocity, cruising	$\underline{v}_{\text{spesic}}$		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Velocity, critical	$\underline{V_{kp}}$		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Velocity, linear	v	w, u	GOST 1493-42	General technical quantities	

(1)	(2)	(3)	(4)	(5)	(6)
Velocity, linear	v		GOST 2971-45	Construction mechanics	
			OST 90054-40	Building constructions	
Velocity of breaking contact with the water	v_{omp}		GOST 1075-41	Hydro-aerodynamics	
Velocity of climb (vertical) of airplane	u		OST VKS 7144	Aerial photography	
Velocity of flight	v		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Velocity, handling	v_{noc}		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	

(1)	(2)	(3)	(4)	(5)	(6)
Velocity of flow	V		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Velocity of flow; velocity of wind	W		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Velocity of flow at distance from body	w_{∞}		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Velocity by width, relative; Froude number by width	c_V	$c_V = \frac{V}{\sqrt{gB}}$ where: V - velocity g - free fall acceleration B - width of boat or float	GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	

(1)	(2)	(3)	(4)	(5)	(6)
Velocity in gaining altitude, optimum horizontal	v_h		OST VKS 7144	Aerial photography	
Velocity of water flow at dam	v_o		OST VKS 6128	Hydrotechnics	
Speed of development	v_{np}		GOST 2653-44	Sensitometry	
Speed of disturbance propagation (speed of wave)	c		GOST 2970-45	Hydromechanics	
Velocity of wave propaga- tion in vacuum	c		OST VKS 6146	Optics	
Speed of airplane (relative to medium), air	v		OST VKS 7144	Aerial photography	

(1)	(2)	(3)	(4)	(5)	(6)
velocity of airplane, maximum	v_{max}			OST VKS 71h4	Aerial photography
Velocity of airplane, optimum	v_u			OST VKS 71h4	Aerial photography
Velocity of airplane (minimum), landing	v_{min}			OST VKS 71h4	Aerial photography
Velocity of airplane (relative to ground), travel	w			OST 2899-45	Theory of mechanisms
velocity of point of link	v	\dot{v}		OST 1075-41	Hydro-aerodynamic computations in air- craft construction
velocity, angular	ω				

(1)	(2)	(3)	(4)	(5)	(6)
Velocity of airplane,		v_e		GOST 2970-45	Hydromechanics
economic				GOST 1493-42	General technical quantities
Velocity of light		c		GOST 2971-45	Construction mechanics
Reduction drop	δ_μ		Ratio of reduction co-efficients before and after limit of absorption level	GOST 90054-40	Building constructions
				GOST 2932	Theoretical mechanics
				OST VKS 7144	Aerial photography
				OST VKS 6350	X-ray technology
					General technical quantities

(1)	(2)	(3)	(4)	(5)	(6)
Reduction drop	δ_{ζ}	Ratio of values of quantity before and after limit of absorption level, where ζ — portion of reduction co- efficient dependent on photo effect	OST VKS 6350	X-ray technology	
Component of deviation of vertical line along longitude perpendicular to the meridian	γ		OST VKS 6345	Geodesy and carto- graphy	
Component of deviation of vertical line along the meridian	ζ		OST VKS 6345	Geodesy and carto- graphy	
Layer of half reduction	Δ	Denotation Δ is supple- mented by sub-line index,	OST VKS 6350	X-ray technology	

(1)	(2)	(3)	(4)	(5)	(6)
Displacement on aerial photograph induced by relief, linear	Δ_h^r		indicating the reducing substance	OST VKS 7144	Aerial photography
Displacement, electric; electrical induction	D			GOST 1494-42	Electrotechnics
Resistance, effective	r			GOST 1494-42	Electrotechnics
Resistance, temporary; strength limit	σ_{ny}	σ_B		OST 90054-40	Building constructions
Resistance, temporary; strength limit	σ_n			GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Resistance, hydrodynamic	W				

(1)	(2)	(3)	(4)	(5)	(6)
Resistance of dielectric for direct current, electric	R_d, r_d	Effective resistance (for alternating current) is denoted by the same symbol but without the index - (dash) namely R, r		GOST VKS 7771	Electrotechnics
Resistance, head	Q	$Q = c_x q S$ wherein: c_x - coefficient of head resistance, q - velocity thrust (dynamic pressure, S - carrying area of wings		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction
Resistance, magnetic	R			GOST 1494-42	Electrotechnic
Resistance (electric) of platinum resistance	R_t			GOST VKS 6261	Measurement of temperatures

(1)	(2)	(3)	(4)	(5)	(6)
thermometer, at temperature t					
Resistance, total	z		GOST 1494-42	Electrotechnics	
Resistance, total (complex expression)	$z = r+jx$	where: r - effective resistance x - reactance	GOST 1494-42	Electrotechnics	
Resistance for direct current, surface electrical	R_{v-} , r_{v-}		OST VKS 7771	Electrotechnics	
Resistance for direct current, surface electrical	R_{s-} , r_{s-}		OST VKS 7771	Electrotechnics	
Resistance for direct current, specific volumetric electric	ρ_v		OST VKS 7771	Electrotechnics	

(1)	(2)	(3)	(4)	(5)	(6)
Resistance for direct current, specific surface electrical	ρ_s -		The corresponding effective resistances (for alternating current) are denoted by the same symbols but without the index - (dash), namely, R_v , r_v , r_s , ρ_v , ρ_s	GOST VKS 7771	Electrotechnics
Reactance	x			GOST 1494-42	Electrotechnics
Resistance of airplane, head	Q			GOST VKS 7144	Aerial photography
Resistance, specific	ρ			GOST 1494-42	Electrotechnics
Component of intensity of terrestrial field, vertical	z			GOST VKS 7082	Terrestrial magnetism

(1)	(2)	(3)	(4)	(5)	(6)
Component of intensity of terrestrial field, east	Y			OST VKS 7082	Terrestrial magnetism
Component of intensity of terrestrial field, north	X			OST VKS 7082	Terrestrial magnetism
Specific rotation of liquid	[α]		Expressed in degrees, the rotation angle of plane of polarized light for a column of liquid of 1 decimeter	OST VKS 6146	Optics
Power, covering	$\frac{1}{P}$			GOST 2653-44	Sensitometry
Power, resolving	R _c		Minimum percentage incre- ment of exposures, at which the photographic paper re- veals brightness details	OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Power of solute, specific rotation [α]			Expressed in degrees and multiplied by 100, the angle of rotation of the plane of polarized light for a column length of active solution to 1 decimeter, and a concen- tration of active solute equal to 1 gram per 10 cubic centi- meters of solution	CST VKS 6146	Optics
Power of body, rotation	(α)		Angle, expressed in degrees, of rotation of plane of polarized light for a thick- ness of rotating body equal to 1 decimeter	CST VKS 6146	Optics
Power of body, emititive	e		Ratio of amount of radiant energy emitted by a surface	CST VKS 6146	Optics

- 255 -

(1)	(2)	(3)	(4)	(5)	(6)
Power of body, limited by two parallel planes, transmittance; coefficient of a body limited by two parallel planes	T		element of the given body to that emitted by an equal ele- ment of the surface of a black body at the same temperature and over the same interval of time	OST VKS 6146	Optics
Power of body, reflective; coefficient of reflection of body	R		Ratio of light flux reflected from the body to the incident flux	OST VKS 6146	Optics

(1)	(2)	(3)	(4)	(5)	(6)
Power of photographic layer, resolution	R			OST 2653-44	Sensitometry
Component of intensity of terrestrial field, horizontal (vector sum of north and east)	H_H , H			OST VKS 7082	Terrestrial magnetism
Degree of saturation of ground interstices by water	K_f			OST 90054-40	Building constructions
Side of aerial photograph, parallel to the abscissa axis	l_x			OST VKS 7144	Aerial photography
Side of aerial photograph parallel to the ordinates axis	l_y			OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Side of plane sheet frame of international grid, lateral	c		OST VKS 7144	Aerial photography	
Sides, limiting area of coverage of use- ful dimension of aerial photograph on terrain	D _x , D _y		OST VKS 7144	Aerial photography	
Sides of spherical triangle	a, b, c		OST VKS 6345	Geodesy and carto- graphy	
Rise of elevation: arc, archetc	f		GOST 2971-45	Construction mechanics	
			OST 90054-40	Building constructions	
Depth of chamber	f		GOST 2971-45	Construction mechanics	

(1)	(2)	(3)	(4)	(5)	(6)
Rise of profile	f		GOST 90054-40	Building constructions	
curvature			GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Sum of north and east components of intensity of terrestrial field, vector; horizontal component of intensity of terrestrial field	H, H _H		GOST VKS 7082	Terrestrial magnetism	
Temperature	t	θ	Also permissible: t°	GOST 1193-42 GOST 2971-45	General technical quantities Construction mechanics

(1)	(2)	(3)	(4)	(5)	(6)
Temperature	t°	ϑ		OST 90054-40	Building constructions
Temperature, absolute	T	Θ	Also permissible: T°	GOST 2970-45 GOST 1493-42	Hydromechanics General technical quantities
Temperature, absolute	T ^o			GOST 2971-45 OST 90054-40	Construction mechanics Building constructions
Temperature, absolute	T ^o			GOST 2970-45	Hydromechanics
Temperature, absolute	T			GOST 1075-41	Hydro-aerodynamic computations in air- craft construction
				GOST VKS 7772	Thermal measurements

(1)	(2)	(3)	(4)	(5)	(6)
Temperature of aneroid	t_A			OST VKS 6345	Geodesy and carto- graphy
Temperature of air	t°			OST VKS 7144	Aerial photography
Temperature of air	t			OST VKS 6345	Geodesy and carto- graphy
Temperature of air, absolute	T°			OST VKS 7144	Aerial photography
Temperature of air at airdrome	t_A°			OST VKS 7144	Aerial photography
Temperature of air at altitude H	t_H°			OST VKS 7144	Aerial photography
Temperature of air at altitude Z	t_Z°			OST VKS 7144	Aerial photography
Temperature of air at sea level	t_0°			OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Temperature, measured in internation ^{al} scale	$^{\circ}\text{C}$		Denotation used with numerical values: for example 950.5°C	OST VKS 6954	Temperature scale
Temperature of source, black	T_s			OST VKS 7820	Measurement of temperatures
Temperature, measured on the basis of 0°C (international hundred degree scale)	t	θ		OST VKS 6261	Measurement of temperatures
Temperature, measured on the basis of 0°K (absolute scale)	T	Θ		OST 6394	Thermodynamics
Temperature measured by means of scale of a con- stant pressure gas thermo- meter ($p = \text{const}$)	t_v			OST VKS 6261	Measurement of temperatures

(1)	(2)	(3)	(4)	(5)	(6)
Temperature measured by means of scale of a constant volume gas thermometer ($v = \text{const}$)	t_p			OST VKS 6261	Measurement of temperatures
Temperature using scale C	t			COST 1075-41	Hydro-aerodynamic computations in air- craft construction
Temperature, radiation	T_r		Temperature of a black body, emitting the same total amount of radiant energy as the given body	CST VKS 6146	Optics
Temperature, centigrade; temperature	t			CST VKS 7772	Thermal measurements
Temperature measured from 0°K (-273°C)	T	Θ		CST VKS 6146	Optics

(1)	(2)	(3)	(4)	(5)	(6)
Temperature, color	T_c		OST VKS 6261	Measurement of temperatures	
			OST VKS 7820	Measurement of temperatures	
			OST VKS 6146	Optics	
			GOST 2653-44	Sensitometry	
Temperature, black	T_s	Temperature of a black body emitting within a certain part of the spectrum the same amount of radiant energy as the given body	OST VKS 6146	Optics	
Temperature, black; temperature, luminosity	T_s		OST VKS 6261	Measurement of temperatures	

(1)	(2)	(3)	(4)	(5)	(6)
Temperature conductivity of substance	a			OST VKS 7772	Thermal measurements
Thermal capacity	c			GOST 1493-42	General technical quantities
Thermal capacity (true)	c		Denotation for 1 kg In denotation for 1 kg - mole it is pre- ceded, if necessary, by the letter <i>M</i>	OST VKS 6394	Thermodynamics
Thermal capacity of substance, normal	<i>c_n</i>			OST VKS 7772	Thermal measurements
Thermal capacity of substance; specific thermal capacity	c			OST VKS 7772	Thermal measurements

(1)	(2)	(3)	(4)	(5)	(6)
Thermal capacity, molecular	c		Denotation for 1 kg In denotations for 1 kg - mole, it is pre- ceded, if necessary, by the letter μ	OST VKS 7772	Thermal measurements
Thermal capacity at constant pressure (true)	c_p		Denotation for 1 kg In denotations for 1 kg - mole it is pre- ceded, if necessary, by the letter μ	OST VKS 6394	Thermodynamics
Thermal capacity at constant volume (true)	c_v		Denotation for 1 kg In denotations for 1 kg - mole it is pre- ceded, if necessary, by the letter μ	OST VKS 6394	Thermodynamics
Thermal capacity, mean (within the interval $t_1^{\circ}\text{C} \rightarrow t_2^{\circ}\text{C}$)	c_m			OST VKS 7772	Thermal measurements

(1)	(2)	(3)	(4)	(5)	(6)
Thermal capacity of body or of a system of bodies	c_s			OST VKS 7772	Thermal measurements
Thermal capacity, specific	c			OST 90054-40	Building constructions
Thermal capacity, specific; thermal capacity of substance	c			OST VKS 7772	Thermal measurements
Thermoconductivity; co- efficient of thermal conductivity	λ			OST 90054-40	Building constructions
Thermal conductivity of substance	λ			OST VKS 7772	Thermal measurements
Heat content	I			OST VKS 6394	Thermodynamics

(1)	(2)	(3)	(4)	(5)	(6)
Heat content	i		Denotation for 1 kg In denotations for 1 kg = mole it is pre- ceded, if necessary, by the letter <i>M</i>	OST VKS 6394	Thermodynamics
Heat content, enthalpy	I			GOST 1493-42	General technical quantities
Heat content of liquid at the moment of in- cidence of vaporization	i'		Denotation relates to 1 kg	OST VKS 6394	Thermodynamics
Heat content of super- heated steam	i		Denotation relates to 1 kg	OST VKS 6394	Thermodynamics
Heat content of dry saturated steam	i"		Denotation relates to 1 kg	OST VKS 6394	Thermodynamics

(1)	(2)	(3)	(4)	(5)	(6)
Heat of evaporation, relative to one kilogram	r		$r = i'' - i'$ where: i'' heat content of dry saturated steam i' - heat content of liquid at moment of in- cidence of vapor forma- tion	OST VKS 6394	Thermodynamics
Heat of evaporation, relative to one kilogram, external	ψ			OST VKS 6394	Thermodynamics
Heat of evaporation, relative to one kilogram, internal	ρ			OST VKS 6394	Thermodynamics
Heat of vaporization, latent	r			GOST 1493-42	General technical quantities

(1)	(2)	(3)	(4)	(5)	(6)
Heat, latent	L		GOST 1493-42	General technical quantities	
Heating power; heat value	Q	H	GOST 1493-42	General technical quantities	
Thickness of lens or system, axial	d		Distance along the optical axis between vertexes of first and last refracting surfaces	OST VKS 6145	Optics
Thickness of lens, reduced; reduced distance between vertexes of adjacent refracting surfaces	δ		$\delta = \frac{d}{n}$, where: d - axial thickness of lens n - index of refraction Reduced distances between vertexes of 1st and 2nd,	OST VKS 6145	Optics

(1)	(2)	(3)	(4)	(5)	(6)
-----	-----	-----	-----	-----	-----

2nd and 3rd, k and k+l

surfaces are denoted by:

$$\delta_1, \delta_2 \dots \delta_k$$

Depth of wing profile

c

GOST 1075-41

Hydro-aerodynamic
computations in air-
craft construction

Depth of profile,
relative

\bar{c}

$$\bar{c} = \frac{c}{b}$$

GOST 1075-41

Hydro-aerodynamic
computations in air-
craft construction

Thickness of welded seam
along leg of right angle
triangle

h_{w4}

OST 90054-40

Building construction

(1)	(2)	(3)	(4)	(5)	(6)
Thickness of welded seam, rated	c <u>w</u>			OST 90054-40	Building constructions
Wall thickness of pipes and vessels	δ			OST VKS 6128	Hydrotechnics
Thickness of wall etc	δ_c			GOST 2970-45	Hydromechanics
Thickness of wall; board; side of metal beam	e			OST 90054-40	Building constructions
Thickness of wall; board; side of metal beam etc (dimensions of transversal section and their elements)	c	δ_d		GOST 2971-45	Construction mechanics
Point of aerial photograph, principal	o			OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Point of vernal equinox	γ		In case of technical impracticability the use of the greek letter γ is permissible	OST VKS 6203	Astronomy
Point of east	E		As an index to denote "eastern" there is used "e"	OST VKS 6203	Astronomy
Point of geodesic base - of trigonometric grid (accompanying the mark)	□, △			OST VKS 7144	Aerial photography
Point, rear principal	H'			OST VKS 6145	Optics
Point, rear junction	K'			OST VKS 6145	Optics
Point of west	W		As an index to denote "western" there is used "w"	OST VKS 6203	Astronomy

(1)	(2)	(3)	(4)	(5)	(6)
Point, camera	- ⊙ -			OST VKS 7144	Aerial photography
photogrammetrical (orientation)					
Point of nadir	n			OST VKS 7144	Aerial photography
on aerial photograph					
Point of zero	c			OST VKS 7144	Aerial photography
distortions on aerial					
photograph					
Point, forward principal	H			OST VKS 6145	Optics
Point, forward junction	K			OST VKS 6145	Optics
Point of intersection of	P			OST VKS 6145	Optics
plane of aperture stop					
with the optic axis					

(1)	(2)	(3)	(4)	(5)	(6)
Point of intersection of plane of field stop with optic axis	P*			OST VKS 6145	Optics
Point, field photo- grammetric (orientation)				OST VKS 7144	Aerial photography
Point of relief (accompanying the mark)	○			OST VKS 7144	Aerial photography
Point of North	N		As an index to denote "northern" there is used "n"	OST VKS 6203	Astronomy
Point of convergence on aerial photograph, principal	i			OST VKS 7144	Aerial photography
Point of South	S		As an index to denote	OST VKS 6203	Astronomy

(1)	(2)	(3)	(4)	(5)	(6)
-----	-----	-----	-----	-----	-----

"southern there is
used "s"

Points of a link	A, B...		GOST 2899-45	Theory of mechanisms
Current; force of current	i	Working (effective) value of current is denoted by capital letter I	GOST 1494-42	Electrotechnics
Accuracy of vernier (nonius)	t		OST VKS 6345	Geodesy and cartography
Thrust of propeller	P		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Magnification, axial	X		OST VKS 6145	Optics
Magnification, transversal linear	Y		OST VKS 6145	Optics

(1)	(2)	(3)	(4)	(5)	(6)
Magnification, angular	A		OST VKS 6145	Optics	
Angles	α, β, γ		GOST 2970-45	Hydromechanics	
			GOST 2899-45	Theory of mechanisms	
Angles of a spherical triangle	A, B, C		OST VKS 6345	Geodesy and carto- graphy	
Angle of attack, true	α_a		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Angle of attack of wing	α		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Angle of attack (of incidence) of airplane wings	θ		OST VKS 7144	Aerial photography	

(1)	(2)	(3)	(4)	(5)	(6)
Angle of attack for $C_y = 0$		α_o		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Angle of attack CAX		α_A	CAX - meridian aerodynamic chord	GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Angle within the horizontal plane (T or E), formed by projection of principal vertical and direction toward a certain point A		ψ_A		OST VKS 7144	Aerial photography
Angle of incidence (of attack) of airplane wings		Θ		OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Angle within the horizontal plane (T or E), formed by projection of principal vertical and the axis of X's	ψ_0			OST VKS 7144	Aerial photography
Angle of wind	ϵ			OST VKS 7144	Aerial photography
Angle of internal friction friction in free-flowing materials	φ			GOST 2971-45	Construction mechanics
Angle within plane P, formed by direction of principal vertical with the direction toward certain point a	ψ_a			OST 90054-40	Building constructions
				OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Angle within plane P, formed by direction of principal vertical with the direction of the axis of X's	ψ			OST VKS 7144	Aerial photography
Angle of sighting, vertical (between perpendicular line and the direction toward point of terrain)	λ			OST VKS 7144	Aerial photography
Angle of sighting, hori- zontal (between initial starting line and the direction from the point of nadir toward the cor- responding point of terrain)	ρ			OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Angle, direction	T		OST VKS 6345	Geodesy and cartography	
Angle of longitudinal trim	φ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle of longitudinal trim, initial	φ_0		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle of drift	ψ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle of diffractional reflection	Θ		OST VKS 6350	X-Ray technology	
Angle of diffractional reflection of the n-th order	Θ_n		OST VKS 6350	X-Ray technology	

(1)	(2)	(3)	(4)	(5)	(6)
Angle of dielectric losses	δ			GOST 1194-42	Electrotechnics
Angle of natural slope	φ			GOST 2971-45	Construction mechanics
Angle, given true travel	α_H			OST VKS 7144	Aerial photography
Angle, given magnetic travel	α_M			OST VKS 7144	Aerial photography
Angle of twist, linear	θ			GOST 2971-45	Construction mechanics
Angle of convergency	γ		Angle of intersection of projections of optical axes of serial photographic	OST 90054-40	Building constructions
				OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
			apparatus within the horizontal or the vertical plane		
Angle of cone	2α			OST VKS 7530	Conic connections in machine building
Angle of bank	γ			GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Angle of bank of airplane wings	β			OST VKS 7144	Aerial photography
Angle of torsion of thread	Δ			OST VKS 7082	Terrestrial magnetism
Angle of least deflection of light ray by prism	ξ_0			OST VKS 6145	Optics
Angle of inclination	α			OST VKS 6345	Geodesy and cartography

(1)	(2)	(3)	(4)	(5)	(6)
Angle of inclination with respect to the optical axis of in- cident ray	α			OST VKS 6145	Optics
Angle of inclination with respect to the optical axis of the issuing ray	α'			OST VKS 6145	Optics
Angle of inclination of plane of motion relative to plane of ecliptic	i			OST VKS 6203	Astronomy
Angle with plane, directional	α, T'			OST VKS 6345	Geodesy and cartography

(1)	(2)	(3)	(4)	(5)	(6)
Angle formed by principal planes of objective Q and the planes of negative P	ν_p			OST VKS 7144	Aerial photography
Angle formed by the principal planes of objective Q and the plane of screen E	ν_E			OST VKS 7144	Aerial photography
Angle formed by the optical axis of the objective of the aerial photographic apparatus, and the sighting ray	β			OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Angle of deviation of the magnet	θ			OST VKS 7082	Terrestrial magnetism
Angle of deflection of the optical axis of the aerial photographic apparatus from the vertical	α			OST VKS 7144	Aerial photography
Angle of deflection of optical axis of the photographic apparatus from the vertical	α			OST VKS 7144	Aerial photography
Angle of deflection (of deflection) of flight controls	δ			GOST 1075-41	Hydro-aerodynamic computations in air- craft construction

(1)	(2)	(3)	(4)	(5)	(6)
Angle of elevator		δ_e		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Angle of rudder		δ_h		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Angle of deflection of light ray by prism	ϵ			OST VKS 6145	Optics
Angle of tab		τ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Angle of elevator tab	τ_e			GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Angle of rudder tab	τ_h			GOST 1075-41	Hydro-aerodynamic

(1)	(2)	(3)	(4)	(5)	(6)
Angle of aileron tab	τ_3		GOST 1075-41	computations in aircraft construction	Hydro-aerodynamic computations in aircraft construction
Angle of aileron	δ_3		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	Aerial photography
Angle, actual true travel	β_N		OST VKS 7144	Aerial photography	
Angle, actual magnetic travel	β_M		OST VKS 7144	Aerial photography	
Angle of incidence of light ray	i	Angles of incidence of ray with 1st, 2nd ...	OST VKS 6145	Optics	

(1)	(2)	(3)	(4)	(5)	(6)
			k-th surface are denoted by: $i_1, i_2, \dots i_k$		
Angle, parallax	α			OST VKS 6203	Astronomy
Angle of eccentricity of elliptic orbit	φ		$e = \sin \varphi$ where: e - eccentricity of orbit	OST VKS 6203	Astronomy
Elongation, absolute: absolute longitudinal deformation on stretching	Δl	δ		GOST 2971-45	Construction mechanics
Elongation, absolute; absolute longitudinal deformation on stretching	Δl			OST 90054-40	Building constructions
Aspect ratio ("Elongation of wings")	λ		$\lambda = \frac{l^2}{S}$, where: l - span of wings	GOST 1075-41	Hydro-aerodynamic computations in air-

(1)	(2)	(3)	(4)	(5)	(6)
Aspect ratio of boat or float ("Elongation of boat or float")	$\frac{L}{B}$	$S = \frac{L}{B} \cdot \delta$ where: L - total length of boat B - width of boat or float	GOST 1075-41	craft construction	Hydro-aerodynamic computations in air-craft construction
Elongation, relative	ϵ	δ	GOST 1h93-42	General technical quantities	
Elongation, relative; relative longitudinal deformation on stretching	ϵ		GOST 2971-45	Construction mechanics	
Aspect ratio of wetted surface ("Elongation of wetted surface")	λ	$\lambda = \frac{l}{B}$ where: l - length of wetted area	GOST 1075-41	Building constructions	Hydro-aerodynamic computations in air-craft construction

(1)	(2)	(3)	(4)	(5)	(6)
Slope	I, i		B = width of boat or float	GOST 2970-45	Hydromechanics
Slope	i		One half of taper: $i = \tan \alpha$ (tangent of inclination angle)	OST VKS 7530	Conic connections in machine building
Contraction, absolute; absolute longitudinal deformation on compres- sion	Δl	δ		GOST 2971-45	Construction mechanics
Contraction, absolute; absolute longitudinal deformation on compres- sion	Δl			OST 90054-40	Building constructions

(1)	(2)	(3)	(4)	(5)	(6)
Contraction, relative; relative longitudinal deformation on compres- sion	ϵ			OST 2971-45	Construction mechanics
Tension; force per unit of surface; pressure	p, P			OST 90054-40	Building constructions
Time equation	γ			OST VKS 6394	Thermodynamics
Levels of atomic energy	K, L _I , L _{II} , L _{III} , ... M _I , M _{II} ...			OST VKS 7158	Measurement of time
Stress in strut of framework	D			OST VKS 6350	X-Ray technology
				OST 90054-40	Building constructions

(1)	(2)	(3)	(4)	(5)	(6)
Stress in rod	N		General denotation	OST 90054-40	Building constructions
Stress in rod - general denotation	N, S			GOST 2971-45	Construction mechanics
Stress in upright of upper zone of frame- work	O			OST 90054-40	Building construction
Stress in upright of lower zone of frame- work	U			OST 90054-40	Building constructions
Stress in brace of frame- work	V			OST 90054-40	Building construction
Acceleration	a, j			GOST 1075-41	Hydro-aerodynamic computations in air- craft construction

(1)	(2)	(3)	(4)	(5)	(6)
Acceleration	a	j		GOST 2970-45	Hydromechanics
Acceleration	a			OST 2932	Theoretical mechanics
Acceleration of second link relative to first, angular	ϵ_{21}			GOST 2899-45	Theory of mechanisms
Acceleration of link, angular	ϵ			GOST 2899-45	Theory of mechanisms
Acceleration, coriolis'	a^*	j^*		GOST 2899-45	Theory of mechanisms
Acceleration, linear	a	j		GOST 1493-42	General technical quantities
				GOST 2971-45	Construction mechanics
Acceleration, linear	a			OST 90054-40	Building constructions

(1)	(2)	(3)	(4)	(5)	(6)
Acceleration of free fall	g		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle, plane	α, β, γ		OST 2932	Theoretical mechanics	
Angle of link rotation	φ		GOST 1493-42	General technical quantities	
Angle of section rotation	φ		GOST 2971-45	Construction mechanics	
			OST 90054-40	Building constructions	
			GOST 2899-45	Theory of mechanisms	
			GOST 2971-45	Construction mechanics	
			OST 90054-40	Building constructions	

(1)	(2)	(3)	(4)	(5)	(6)
Angle, polar (coordinates polar)	φ, θ			GOST 2971-45	Construction mechanics
Angle of transversal v	ψ			GOST 1075-41	Hydro-aerodynamic computations in air-craft construction
Angle of transversal careening at stop, external	β'			GOST 1075-41	Hydro-aerodynamic computations in air-craft construction
Angle of transversal careening at stop, internal	β			GOST 1075-41	Hydro-aerodynamic computations in air-craft construction
Angle of refraction of light ray	i'		Angles of refraction of a light ray on passage through 1st, 2nd ... k-th surface are denoted by $i'_1, i'_2 \dots i'_k$	OST VKS 6145	Optics

(1)	(2)	(3)	(4)	(5)	(6)
Angle of prism, refraction	θ		GOST VKS 6145	Optics	
Angle of longitudinal careening of stern	γ_2		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Angle of longitudinal careening of portion between stops	γ_1		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Angle of flow direction with propeller blade profile, measured within plane of rotation	β		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Angle, anti noscoker	β		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	

(1)	(2)	(3)	(4)	(5)	(6)
Angle of travel		ψ	GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle of planet, hourly		t	OST VKS 6203	Astronomy	
Angle of displacement; relative displacement		γ	GOST 2971-45	Construction mechanics	
Angle of sliding	β		OST 90054-40	Building constructions	
Angle of taper of flow	ϵ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
			GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	

(1)	(2)	(3)	(4)	(5)	(6)
Angle of drift	φ		OST VKS 71lh	Aerial photography	
Angle of sweepback	χ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle of pitching	ϑ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle, solid	ω		GOST 1493-42	General technical quantities	
Angle of flight trajectory with horizon	θ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle of friction	φ		GOST 2899-45	Theory of mechanisms	

(1)	(2)	(3)	(4)	(5)	(6)
Angle of slope	α		OST VKS 7530	Conic connections in machine building	
Angle of lead	ω		OST VKS 7144	Aerial photography	
Angle of setting	φ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle of setting; inclination of blade section to plane of rotation	φ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Angle, central	γ		Angle between optical axis and radius of spherical surface	OST VKS 6145	Optics
Angle, hourly	Θ, t			OST VKS 7158	Measurement of time

(1)	(2)	(3)	(4)	(5)	(6)
Acceleration of force of gravity	g		GOST 2970-45	Hydromechanics	
			GOST 1493-42	General technical quantities	
			GOST 2971-45	Construction mechanics	
			OST 90054-40	Building constructions	
Acceleration (tension) of force of gravity, observed	g		OST VKS 6345	Geodesy and carto- graphy	
Acceleration (tension) of force of gravity at the pole	g_p		OST VKS 6345	Geodesy and carto- graphy	
Acceleration (tension) of force of gravity at the equator	g_e		OST VKS 6345	Geodesy and carto- graphy	

(1)	(2)	(3)	(4)	(5)	(6)
Acceleration of gravity reduced to sea level including Buoy correction, observed	g_o'			OST VKS 6345	Geodesy and cartography
Acceleration (tension) of gravitation force reduced to sea level with free air and topographic correction, observed	g_o''			OST VKS 6345	Geodesy and cartography
Acceleration (tension) of gravitation force reduced to sea level with free air correction, observed	g_o'''			OST VKS 6345	Geodesy and cartography
Acceleration of point A, normal	a_A^n	j_A^n		GOST 2899-45	Theory of mechanisms

(1)	(2)	(3)	(4)	(5)	(6)
Acceleration of point, total	a			GOST 2899-45	Theory of mechanisms
Acceleration of point A, tangential	a_A^t	j_A^t		GOST 2899-45	Theory of mechanisms
Acceleration of point B relative to point A of the same link, normal	a_{BA}^n	j_{BA}^n		GOST 2899-45	Theory of mechanisms
Acceleration of point B relative to point A of the same link, total	a_{BA}	j_{BA}		GOST 2899-45	Theory of mechanisms
Acceleration of point B relative to point A of the same link, tangential	a_{BA}^t	j_{BA}^t		GOST 2899-45	Theory of mechanisms
Acceleration, angular	ϵ	ϑ		GOST 1493-42	General technical quantities

(1)	(2)	(3)	(4)	(5)	(6)
Acceleration, angular	ϵ		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Phase of oscillation,	φ		GOST 2971-45	Construction mechanics	
initial			OST 90054-40	Building constructions	
Phase, initial	ψ	φ	OST 2932	Theoretical mechanics	
Factor of graininess	G		OST VKS 6146	Optics	
Focus, rear (principal)	F'		GOST 1494-42	Electrotechnics	
Focus, forward (principal)	F		GOST 2653-44	Sensitometry	
			OST VKS 6145	Optics	
			OST VKS 6145	Optics	

(1)	(2)	(3)	(4)	(5)	(6)
Function, power	U		OST VKS 6203	Astronomy	
			GOST 2970-45	Hydromechanics	
			OST 2932	Theoretical mechanics	
Function of current	ψ, γ		GOST 2970-45	Hydromechanics	
Characteristic, discharge	K		GOST 2970-45	Hydromechanics	
Variation of chronometer	s		OST VKS 7082	Terrestrial magnetism	
Variation of clock	ω		OST VKS 6203	Astronomy	
Chord of vertical tail group	b _{6.0.}		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Chord of horizontal tail group	b _{2.0.}		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	

(1)	(2)	(3)	(4)	(5)	(6)
Chord, tip	b_{konu}		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Chord of wing; chord of profile	b		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Chord of profile; chord of wing	b		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Chord of rudder	b_p		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Chord of wheel pair	b_k		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Chord of altitude rudder	b_g		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	

(1)	(2)	(3)	(4)	(5)	(6)
Chord of direction rudder	$b_{\mathcal{H}}$		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Chord, mean aerodynamic	b_A		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Chord of trimmer	b_{mp}		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Chord of aileron	b_3		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Chronometric timing; time expended to determine aerial navigation elements	T_{ω}		OST VKS 7144	Aerial photography	

(1)	(2)	(3)	(4)	(5)	(6)
Value of one graduation of level in seconds of arc	τ		OST VKS 6345	Geodesy and carto- graphy	
Value of one graduation of micrometer knob in seconds	μ		OST VKS 6345	Geodesy and carto- graphy	
Value of one graduation of planimeter (absolute)	p		OST VKS 6345	Geodesy and carto- graphy	
Value of one graduation of planimeter, expressed in land measure (scale or relative)	p_s		OST VKS 6345	Geodesy and carto- graphy	
Center of rotation of link instantaneous; instanteneous center of velocities	P_v	P	GOST 2899-45	Theory of mechanisms	

(1)	(2)	(3)	(4)	(5)	(6)
Center of projection	S			OST VKS 7144	Aerial photography
Center of velocities, instantaneous; instantaneous center of rotation of link	P _v	P		GOST 2899-45	Theory of mechanisms
Center of spherical surface	C		Centers of 1st, 2nd, ... k-th spherical surfaces are denoted by: c ₁ , c ₂ , ... c _k	OST VKS 6145	Optics
Center of gravity of link	S, C			GOST 2899-45	Theory of mechanisms
Center of acceleration of link, instantaneous	P _a	U,		GOST 2899-45	Theory of mechanisms
Circuit of velocity	I'			GOST 1075-41	Hydro-aerodynamic

(1)	(2)	(3)	(4)	(5)	(6)
Frequency	f	ν	GOST 2970-45	computations in aircraft construction	Hydromechanics
Frequency of oscillation	ν		GOST 1493-42	General technical quantities	Electrotechnics
Frequency of oscillations	ν, f		GOST 1494-42		X-Ray technology
Frequency, cycle	ω, p		GOST VKS 6350		Hydro-aerodynamic computations in aircraft construction
			GOST 1075-41		Hydro-aerodynamic computations in aircraft construction

(1)	(2)	(3)	(4)	(5)	(6)
Frequency of oscillations, limiting highest in con- tinuous spectrum of X-rays	ν_o			OST VKS 6350	X-Ray technology
Frequency of oscillations, angular	ω			OST VKS 6146	Optics
Frequency, angular	ω			GOST 1494-42	Electrotechnics
Portion of year from moment of beginning of Bessel's fictitious year	τ			OST VKS 6203	Astronomy
Portion of the reduction coefficient, dependent on photoeffect	τ'		See: reduction co- efficient	OST VKS 6350	X-Ray technology

(1)	(2)	(3)	(4)	(5)	(6)
Portion of the reduction coefficient determined from the correlation	σ_r	wherein: μ = coefficient of reduction and τ the portion of the reduction coefficient dependent on photo-effect. See: coefficient of reduction	OST VKS 6350	X-Ray technology	
Portion of the reduction coefficient, determining the energy of emission electrons	σ_r	See: coefficient of reduction	OST VKS 6350	X-Ray technology	
Bessel's numbers for transfer of visible location into mean and vice versa (first order of magnitudes)	A, B, C, D, E A*, B*		OST VKS 6203	Astronomy	

(1)	(2)	(3)	(4)	(5)	(6)
Number of aerial photo-	n			OST VKS 7144	Aerial photography
graphs (numbering by means of arabic numerals					
Number of aerial photo-	n_p			OST VKS 7144	Aerial photography
graphs in one flight					
Number of aerial photo-	n_L			OST VKS 7144	Aerial photography
graphs in one itinerary					
Number of aerial photo-	n_S			OST VKS 7144	Aerial photography
graphs in area S					
Number of turns in	ω	n		GOST 1494-42	Electrotechnics
winding					
Number of waves per one	N			OST VKS 6146	Optics
centimeter					

(1)	(2)	(3)	(4)	(5)	(6)
Total number of links in kinematic chain	n			GOST 2899-45	Theory of mechanisms
Number of kinematic couples of 1st, 2nd, 3rd etc class	P_1, P_2 P_3 etc	q_1, q_2 q_3 etc		GOST 2899-45	Theory of mechanisms
Number of oscillations per second	v			OST VKS 6146	Optics
Number of blades of propeller	K			GOST 1075-41	Hydro-aerodynamic computations in air- craft construction
Number of itineraries	N			OST VKS 7144	Aerial photography
Number of itineraries in one flight	N_p			OST VKS 7144	Aerial photography

(1)	(2)	(3)	(4)	(5)	(6)
Number of itineraries within area of photo- graphing ($S \Sigma$)	N			OST VKS 7144	Aerial photography
Makh number	Ma	$Ma = \frac{V}{a}$	where: V - velocity of flight (or flow) a - velocity of sound	GOST 1075-41	Hydro-aerodynamic computations in air- craft construction
Number of revolutions per unit of time	n			GOST 1493-42	General technical quantities
Number of revolutions per minute	n			GOST 1075-41	Hydro-aerodynamic computations in air- craft construction
Number of revolutions per second	n_s	The denotation n_s is permissible		GOST 1075-41	Hydro-aerodynamic computations in air- craft construction

(1)	(2)	(3)	(4)	(5)	(6)
Number of revolutions of link per minute	n			GOST 2899-45	Theory of mechanisms
Number of polar plani- meter, constant	Q			OST VKS 6345	Geodesy and carto- graphy
Number of Reynolds	Re		$Re = \frac{Vl}{\nu}$	GOST 2970-45	Hydromechanics
			where: V - velocity of flight (or flow) l - characteristic linear dimension ν - kinematic viscosity co-efficient	GOST 1075-41	Hydro-aerodynamic computations in air- craft construction
Number of ^{mobility} / freedom orders of the mechanisms	W			GOST 2899-45	Theory of mechanisms
Number of freedom orders of a kinematic chain	H			GOST 2899-45	Theory of mechanisms

(1)	(2)	(3)	(4)	(5)	(6)
Number of Strouhal	Sh		$Sh = \frac{V}{n_s D}$	GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Number of phases	m		where: V - velocity of flight (or flow) n _s - number of revolutions per second D - diameter of propeller	GOST 1494-42	Electrotechnics
Number of Froude	Fr		$Fr = \frac{V^2}{gL}$	GOST 2970-45	Hydromechanics
			where: V - velocity g - acceleration of free fall l - length	GOST 1075-41	Hydro-aerodynamic computations in aircraft construction

(1)	(2)	(3)	(4)	(5)	(6)
Number of Froude by width; relative velocity by width	c_v	$c_v = \frac{V}{\sqrt{gB}}$	GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Pitch of propeller	H	where: V - velocity g - acceleration of free fall B - width of boat or float	GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Pitch of propeller, relative	h	$h = \frac{H}{D}$	GOST 1075-41	Hydro-aerodynamic computations in air- craft construction	
Spacing of threaded fittings in reinforced concrete member	a_f	where: H - pitch of propeller D - diameter of propeller	OST 90054-40	Building constructions	

(1)	(2)	(3)	(4)	(5)	(6)
Spacing of rivets, keys, pins etc	a			OST 90054-40	Building constructions
Width	b			GOST 1493-42	General technical quantities
Width	b, B			OST 90054-40	Building constructions
Width (dimensions of constructions and their elements)	b, B			GOST 2970-45	Hydromechanics
Width (dimensions of cross sections and their elements)	b			OST 90054-40	Building constructions
				GOST 2971-45	Construction mechanics
				GOST 2971-45	Construction mechanics

(1)	(2)	(3)	(4)	(5)	(6)
Width of track	B			GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Width of boat	B	<u>B</u>		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Width of midship section	B	<u>M</u>		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Width of midship section of fuselage	B	<u>M.</u> <u>φ</u>		GOST 1075-41	Hydro-aerodynamic computations in aircraft construction
Width of ledge of T - reinforced concrete section	b _n			OST 90054-40	Building constructions

(1)	(2)	(3)	(4)	(5)	(6)
Width of float	B	B_n	GOST 1075-41	Hydro-aerodynamic computations in aircraft construction	
Latitude, geographic (astronomical)		φ	OST VKS 6345	Geodesy and cartography	
Latitude, geodesic	B		OST VKS 6345	Geodesy and cartography	
Latitude, geocentric	φ'		OST VKS 6345	Geodesy and cartography	
Latitude of heavenly body, heliocentric	b		OST VKS 6203	Astronomy	
Latitude, corrected	u		OST VKS 6345	Geodesy and cartography	

(1)	(2)	(3)	(4)	(5)	(6)
Latitude of point of observation	φ			OST VKS 7082	Terrestrial magnetism
Latitude of planet	β			OST VKS 6203	Astronomy
Latitude of sun	β			OST VKS 6203	Astronomy
Latitude, mean geo- graphic (astronomical)	φ_m			OST VKS 6345	Geodesy and carto- graphy
Latitude, mean geodesic	β_m			OST VKS 6345	Geodesy and carto- graphy
Latitude of point of earth surface, geo- graphical	φ			OST VKS 6203	Astronomy
Latitude of point of earth surface, geo- centric	φ'			OST VKS 6203	Astronomy

(1)	(2)	(3)	(4)	(5)	(6)
Latitude, photographic	L		GOST 2653-44	Sensitometry	
Latitude of emulsion, useful	L_s	Difference of log of ex- posures corresponding to two points of the character- istic curve, for which the gradient has the least use- ful value	OST VKS 7144	Aerial photography	
Equivalent of work, thermal	A		OST VKS 6394	Thermodynamics	
Equivalent, photocentric	P		GOST 2653-44	Sensitometry	
Exposure; amount of illumination	H		GOST 2653-44	Sensitometry	
Exposure of photographic paper, standard	Z	Determines that exposure which for a negative of density 2.0 corresponds to	OST VKS 7144	Aerial photography	

(1)	(2)	(3)	(4)	(5)	(6)
Eccentricity	e		the point in the under-exposure area with the least useful gradient	GOST 2971-45 OST 90054-40 GOST 2899-45	Construction mechanics Building constructions Theory of mechanisms
Eccentricity of alidade	e			OST VKS 6203	Astronomy
Eccentricity of alidade or circle	e			OST VKS 6345	Geodesy and cartography
Eccentricity of meridian of terrestrial spheroid	e			OST VKS 6203	Astronomy

(1)	(2)	(3)	(4)	(5)	(6)
Eccentricity of meridian of terrestrial spheroid (first)	e		$e = \frac{\sqrt{a^2 - b^2}}{a}$	OST VKS 6345	Geodesy and cartography
			where: a and b - lengths of major (a) and minor (b) half axis of terrestrial spheroid		
Eccentricity of meridian of terrestrial spheroid (second)	e'		$e' = \frac{\sqrt{a^2 - b^2}}{b}$	OST VKS 6345	Geodesy and cartography
			where: a and b, lengths of major (a) and minor (b) half axis of terrestrial spheroid		
Eccentricity of orbit	e			OST VKS 6203	Astronomy
Electric force; intensity of electric field	E	K		GOST 1494-42	Electrotechnics

(1)	(2)	(3)	(4)	(5)	(6)
Element of reduction, linear	e_1		OST VKS 6345	Geodesy and carto-graphy	
Element of reduction, angular	Θ_2		OST VKS 6345	Geodesy and carto-graphy	
Element of centering, linear	e		OST VKS 6345	Geodesy and carto-graphy	
Element of centering, angular	Θ		OST VKS 6345	Geodesy and carto-graphy	
Elements of epoch t_0 , osculatory	a_0, e_0, Θ_0		OST VKS 6203	Astronomy	
Energy	W	A, E	GOST 1493-42	General technical quantities	
Energy	E, U		GOST 2970-45	Hydromechanics	

(1)	(2)	(3)	(4)	(5)	(6)
Energy	w	U		OST 90054-40	Building constructions
Energy	E			OST VKS 6394	Thermodynamics
Energy	e		Denotation for 1 Kg In denotation for 1 kg-mole it is preceded, if necessary, by the letter <i>M</i>	OST VKS 6394	Thermodynamics
Energy, interval	u			GOST 1493-42	General technical quantities
Energy, interval	u			OST VKS 6394	Thermodynamics
			Denotation for 1 Kg In denotation for 1 kg-mole it is preceded, if necessary, by the letter <i>M</i>	OST VKS 6394	Thermodynamics

(1)	(2)	(3)	(4)	(5)	(6)
Energy of liquid at the moment of ini- ciency of vaporiza- tion, interval	u^t		Denotation relates to 1 Kg	OST VKS 6394	Thermodynamics
Energy of radiation of X-rays of wave length λ	W_λ			OST VKS 6350	X-Ray technology
Energy of radiation of X-Rays, striking a given surface of irradiated medium	W_0			OST VKS 6350	X-Ray technology
Energy of radiation of X-rays, absorbed by the irradiated medium	W_a			OST VKS 6350	X-Ray technology

(1)	(2)	(3)	(4)	(5)	(6)
Energy of radiation of X-rays passing through a given area, over a given length of time	W			OST VKS 6350	X-Ray technology
Energy, kinetic	E			OST 2932	Theoretical mechanics
Energy, kinetic	T			GOST 2970-45	Hydromechanics
				GOST 1493-42	General technical quantities
Energy, kinetic; kinetic force	E	T		GOST 2899-45	Theory of mechanisms
Energy, kinetic; kinetic force	T			GOST 2971-45	Construction mechanics

(1)	(2)	(3)	(4)	(5)	(6)
Energy of superheated steam; interval	u		Denotation relates to 1 Kg	OST VKS 6394	Thermodynamics
Energy, potential	π			GOST 2970-45	Hydromechanics
				GOST 1493-42	General technical quantities
				OST 2932	Theoretical mechanics
Energy, potential; expansible energy	u, π			GOST 2971-45	Construction mechanics
Energy, light	L			OST VKS 7637	Light measurements
Energy, free	F			GOST 1493-42	General technical quantities
Energy, free	f		Denotation for 1 Kg In denotations for 1	OST VKS 6394	Thermodynamics

(1) (2) (3) (4) (5) (6)

Kg - mole it is preceded,
if necessary, by the letter M

Energy of section, specific	<u>θ</u>		GOST 2970-45	Hydromechanics
Energy of saturated steam, interval	U"	Denotation relates to 1 Kg	OST VKS 6394	Thermodynamics
Energy, expansible; potential energy	u, <u>H</u>		GOST 2971-45	Construction mechanics
Enthalpy; heat content	I		GOST 1493-42	General technical quantities
Entropy	S		GOST 1493-42	General technical quantities
			OST VKS 6394	Thermodynamics

(1)	(2)	(3)	(4)	(5)	(6)
Entropy	s		Denotation for 1 Kg In denotations for 1 Kg - mole it is pre- ceded, if necessary, by the letter <i>M</i>	OST VKS 6394	Thermodynamics
Entropy of a liquid at the moment of in- cipient vaporization	s'		The denotation relates to 1 Kg	OST VKS 6394	Thermodynamics
Entropy of superheated steam	s		The denotation relates to 1 Kg	OST VKS 6394	Thermodynamics
Entropy of dry saturated steam	s''		The denotation relates to 1 Kg	OST VKS 6394	Thermodynamics
Brightness	B			OST VKS 7637 GOST 2653-44	Light measurements Sensitometry

PART II

Denotations of terms in alphabetical order of letters
and of special denotations.

Denotations	Terms
1. Latin Alphabet.	
A	Azimuth of geodesic line
A	Azimuth of planet
A	Activity of developing action of developer
A	Amplitude
A	Astronomical azimuth
A	Atomic weight
A	Vector potential
A	True azimuth
A	Reading by aneroid
A	Loss of light in body by absorption, expressed in parts of flux striking the body
A	Work
A	Reaction of support in plane system; vertical component of reaction
A	Thermal equivalent of work
A	Angular magnification
A	Energy
A, B, C,	Coefficients of calibration formulas for platinum resistance thermometer
A, B, C,	Points of a link

<i>A, B, C,</i>	<i>Angles of a spherical triangle.</i>
<i>A, B, C,</i>	Centrifugal moment of inertia relative to coordinate
	axes X, Y, Z.
<i>A, B, C,</i>	Equatorial gauss' constants
<i>A, B, C, D,</i>	Numbers of Bessel for reduction from apparent place to
<i>E, A', B'.</i>	mean place and vice-versa.
	(first system)
<i>(A, B, C,)</i>	Total reactions of supports in plane system
<i>A_x</i>	Internal cone
<i>A_m</i>	Magnetic azimuth
<i>A_o</i>	Reading of aneroid corrected for temperature
<i>A_λ</i>	Monochromatic photoactinic flux
<i>A'</i>	Back azimuth
<i>A', B'</i>	See numbers of Bessel for reduction of apparent place to mean place, and vice-versa, <i>A, B, C, D, E, A', B'</i> .
<i>a</i>	Amplitude of oscillation
<i>a</i>	Aerodynamic linear stagger
<i>a</i>	Major half axis of terrestrial spheroid
<i>a</i>	Major semi axis of orbit
<i>a</i>	Upper base of plane sheet frame of internation grid
<i>a</i>	Length of major half axis of terrestrial spheroid
<i>a</i>	Linear acceleration
<i>a</i>	Reading of micrometer on adjusting hairlines to lowest mark
<i>a</i>	Total acceleration of point
<i>a</i>	Correction for condition of aneroid
<i>a</i>	Distance of framework to the nearest section edge
	Distance along optical axis from object and image to forward principal point

a	Velocity of sound
a	Temperature conductivity of substance
a	Acceleration
a	Spacing of rivets, keys, pins, etc.
a, b, c,	Coefficients of formula correlating thermoelectromotive force of platinum-platinum-sodium thermocouple with the temperature
a, b, c,	Sides of spherical triangle
a, b, c,	Equatorial gauss' constants
a, b, c, d,	Plane sheets of internation grid
	Frame dimensions:
a	- Upper base
b	- Lower base
c	- Lateral side
d	- diagonal
a, b, c, d,(a', b', c', d')	Sideral constants of Bessel
a_A^n	Normal acceleration of point A
a_A^t	Tangential acceleration of point A
a_{BA}	Total acceleration of point B relative to point A of the same link.
a_{BA}^n	Normal acceleration of point B relative to point A of the same link
a_{BA}^t	Tangential acceleration of point B relative to point A of the same link
α_ℓ	Spacing of threaded framework in reinforced concrete member
a_o, e_o, δ_o	Osculatory elements of epoch t_o

a'	Distance along optical axis from object and image to rear principal point
a', b', c', d'	Sideral constants of Bessel
a ^x	Coriolis' acceleration
B	Geodesic latitude
B	Length of photographic base
B	Coefficient of load for swept area
B	Magnetic induction
B	Reading of mercury barometer
B	See A, B, C, (A, B, C)
B	Width
B	Width of track
B	Width of boat
B	Width of float
B	Latitude of sun
B	Brightness
B _K	External cone
B _l	Width of boat
B _m	Width of midship section
B _{M, 0}	Width of midship section of fuselage
B _n	Width of float
B _d	Residual magnetic induction of body
B _i	Internal magnetic induction
B _m	Mean geodesic latitude
B _{max}	Maximum magnetic induction
B _r	Residual magnetic induction of body
B _s	Internal magnetic induction of saturation
B _o	True pressure of air

B'	See A', B'
b	Basis of scale in photographing
b	Heliocentric latitude of heavenly body
b	Length of minor half axis of terrestial spheroid
b	Minor half axis of terrestial spheroid
b	Inclination of horizontal axis relative to horizon
b	Lower base of plane sheet frame of international grid
b	Reading of micrometer ^{on} adjusting the hairlines to the highest mark
b	Susceptance
b	See a, b, c.
b	Temperature coefficient of aneroid
b	Chord of wing; chord of profile
b	Width
2b	Interval of floats
b _A	Mean aerodynamic chord
b _E	Chord of elevator
b _{G.O}	Chord of vertical tail group
b _{H.O}	Chord of horizontal tail group
b _K	Chord of wing base
b _{KOMU}	Chord of wing tip
b _L	Chord of directional rudder
b _n	Width of ledge of T - reinforced concrete section
b _P	Chord of rudder
b _{mp}	Chord of trimmer
b _g	Chord of aileron
b _x , b _y , b _z	Projection of base on axes of coordinates or planes
b'	See a', b', c'
c	Base distance of cone

C Coefficient of head resistance
C Coefficient of lift force
C Coefficient of Chezy
C Molecular heat capacity
C Correction for emergent column
C Constant of range finder; coefficient of range finder
C Constant of displacement law - law of W. Wien.
C Constant of equations of Wien and Planck
C Projection of point of zero distortions on terrain
C See, A, B, C (A, B, C).
C Thermal Capacity
C Center of spherical surface
C Center of gravity of link
C Electric capacity
C₂ Second constant of equations of Wien and Planck
°C Temperature measured by internation^{al}(scale
c Base distance of cone
c Lateral side of plane sheet frame of international
grid
c Collimator error
c Relative thickness of profile
c Reduction factor of magnetic theodolite
c Correction
c Correction for emergent mercury column of thermometer
c Correction of direction by centering in seconds of arc
c Correction of aneroid scale
c Velocity of disturbance propagation (wave velocity)

c	Velocity of wave propagation in vacuo
c	Light velocity
c	See, a, b, c.
c	Thermal capacity (true)
c	Thermal capacity of substance; specific thermal capacity
c	Depth of wing profile
c	Thickness of wall, board, side of metal beam
c	Point of zero distortions of aerial photograph
c	Specific thermal capacity
c_A	Correction for condition of aeroid
c_B	Coefficient of dynamic load
c_{w_4}	Rated thickness of welded seam
c_f	Coefficient of surface friction
c_m	Coefficient of moment (aerodynamic)
c_m	Mean thermal capacity (within interval $t_i^{\circ}C - t_z^{\circ}C$)
c_n	Normal thermal capacity of substance
c_P	Coefficient of negative thrust of propeller
c_p	Thermal capacity at constant pressure (true)
c_R	Coefficient of aerodynamic thrust of propeller (total)
c_s	Coefficient of speed
c_s	Thermal capacity of body or system of bodies
c_V	Relative velocity by width; Froude's number by width
c_v	Thermal capacity at constant volume (true).
c_w	Coefficient of hydrodynamic resistance
c_x	Coefficient of head resistance
$(-c_k)$	Coefficient of power by velocity

c_{xi}	Coefficient of induction resistance
c_{x_1}	Coefficient of tangential force of resistance
$(-c_{x_1})$	Coefficient of tangential force
c_{xf}	Coefficient of friction, relative to midship or area of the wings
c_{xp}	Coefficient of profile resistance
c_y	Coefficient of lift force
c_{y_1}	Coefficient of normal force
c_z	Coefficient of lateral force
c_{z_1}	Coefficient of transversal force
c_A	Coefficient of static load
c'	See a' , b' , c' .
D	Displacement, by weight, of boat
D	Diameter of propeller
D	Diopter
D	Dosage (physical)
D	Magnetic deviation
D	Optical density; optical density of blackening
D	Rated diameter
D	Stress in str <u>t</u> of framework
D	Electric displacement; electric induction
D, E, F,	Centrifugal moments of inertia relative to coordinate axes X, Y, Z.
D_o	Optical density of fog
D_n	Optical density of base
(D_n)	Displacement, by weight, of float
D_{max}	Upper limit of blackening; maximum optical density

D _r	Optical density of print
D _s	Distance from airdrome to area of photographing
D _t	Depression of zero point after temperature t in a thermometer subjected to ageing
D _u	Principal refraction of lens
D _x , D _y ,	Sides limiting area covered by useful dimension of aerial photograph upon terrain
D _φ	Effective optical density
D _o	Major diameter of cone
D _o	Dosage (physical) of X-rays on surface of irradiated medium
D _o	Length of base reduced to sea level
D _o	Refraction of infinitely thin lens
D ₁	Refraction of first surface of lens
D ₂	Refraction of second surface of lens
D	Regular optical density
D _†	Diffusional optical density
D _Σ	Integral optical density
D _∞	Limit optical density
d	Displacement, by weight, of float
d	Horizontal distance between two points
d	Diagonal of plane sheet frame of international grid
d	Diameter
d	Relative weight
d	Distance along optical axis between vertexes of first and last refracting surfaces; axial depth of lens or system
d	Rated diameter

(d)	Thickness of wall, board, side of metal beam etc. (dimensions of cross sections and their elements)
d_p	Diameter of aperture stop
d_p'	Diameter of field stop
d_t	Depression of zero point after temperature
d_x	Longitudinal useful dimension of aerial photograph
d_y	Transversal useful dimension of aerial photograph
d_b	Minor diameter of cone
$d_1, d_2 \dots d_k$	Distance along the optical axis between vertexes of adjacent refracting surfaces, 1st and 2nd, 2nd and 3rd, and k th and $k+1$ th
E	Kinetic force; kinetic energy
E	Modulus of longitudinal elasticity
E	Modulus of elasticity
E	Intensity of electric field; electric force
E	Illumination
E	Plane of transformation; plane of screen
E	See, D. E, F.
E	Point of East
E	Eccentric anomaly
E	Energy
e	Electron charge
e	Emittive power of body
e	Linear element of centering
e	Distance between rows of rivets, keys, pins etc.
e	Eccentricity
e	Eccentricity of alidade or circle

e	Eccentricity of meridian of terrestrial spheroid (first)
e	Eccentricity of meridian of terrestrial spheroid
e	Eccentricity of orbit
e	Electromotive force
(e)	Electric potential
(e)	Difference of potentials
e_t	Thermoelectromotive force of a thermocouple
e_o	Osculatory element of epoch t_o (see a_o, e_o, θ_o)
e'	Linear element of reduction
e'	Second eccentricity of meridian of terrestrial spheroid
F	Magnetomotive force
F	Forward focus, (principal)
F	Area swept by propeller
F	Area
F	Area of discharge
F	Light flux
F	Free energy
F	Force
F	Force of thrust of propeller-engine assembly
F	See, D, E, F.
F_r	Number of Froude
F_u	Force of inertia
F'	Rear focus (principal)
f	Coefficient of friction
f	Coefficient of sliding friction
f	Forward (principal) focal distance of optical system
f	Area of section
f	Correction for earth curvature and refraction

f	Constant of Newtonian attraction
f	Distance of lateral mark of grid from median
f	Free energy
f	Rise of elevation, arc, arch etc.
f	Depth of chamber
f	Rise of profile curvature
f	Focal distance
f	Frequency
f	Frequency of oscillations
f, g, G, h, H	Quantities for the reduction of apparent location of planet to mean and vice-versa (second system)
f_k	Focal distance of aerial photographic camera
f'	Focal distance of objective of aerial photographic apparatus
\bar{f}	Rear (principal) focal distance of optical system
G	Relative curvature of profile
G	Weight
G	Weight of link
G	Weight of discharge
G	Magnetic conductivity
G	Modulus of shear
G	Flight weight of airplane
G	Permanent point load; permanent loading
G	Point load; point loading
G	Factor of graininess
G_a	Flight weight of ^{part} part
G_u	Total load of airplane
$G_{u.n}$	Useful load
G_{nyom}	Weight of empty airplane

G_{m+c}	Weight of fuel and lubricant
G_{s-}	Surface electrical conductivity of dielectric for direct current
G_{v-}	Volumetric electrical conductivity of dielectric for direct current
G_-	Electric conductivity of dielectric for direct current
G/N	Load per H.P.
G/S	Load per m^2 ; specific load
G'	See: f, g, G, h, H, i, f' , g' , G'
g	Conductance
g	Weight of the entire airplane in flight
g	Gradient; slope of characteristic curve
g	Observed acceleration (intensity) of force of gravity
g	Permanent distributed load; load, permanent uniform
g	Permanent uniform load; permanent distributed load
g	See: f, g, G, h, H, i, f' , g' , G'
g	Uniform loading
g	Acceleration of free fall
g	Acceleration of gravitation force
g_e	Acceleration of intensity of gravitation force at equator
g_{min}	Least useful gradient (corresponding to beginning of distinct rendition of light components)
g_{min}	Useful minimum gradient
g_p	Acceleration (intensity) of gravitation force at the pole
g_{s-}	Surface electrical conductivity of dielectric for direct current

gv-	Volumetric electrical conductivity of dielectric for direct current
g _o	Observed acceleration (intensity) of force of gravity reduced to sea level with correction for free air
g' _o	Observed acceleration of force of gravity, corrected for free air and including topographic correction
g'	See f, g, G, h, i, f', g', G'.
g'' _o	Observed acceleration of force of gravity reduced to sea level with Bouguet correction
g ₋	Electric conductivity of dielectric for direct current
\bar{g}	Mean gradient
H	Absolute altitude of point
H	Vector sum of north and east components of intensity of terrestrial field; horizontal component of terrestrial field intensity
H	Height
H	Height of dam
H	Altitude of flight
H	Height of plane at moorings
H	Altitude of plane above terrain
H	Horizontal thrust
H	Length of conic connection; height of conic connection
H	Amount of illumination; exposure
H	Pressure
H	Intensity of magnetic field
H	Forward principal point
H	Reaction of support in plane system; horizontal component of reaction

H	See: f, g, G, h, H, i, f', g', G'
H	Number of degrees of freedom of kinematic chain
H	Pitch of propeller
(H)	Heating value; heating power
H _A	Altitude above airdrome of departure
H _o <u>b</u>	Height of boat
H _m	Height of midship section
H _{M..go}	Height of midship section of fuselage
H _x	Horizontal component of terrestrial field intensity (vector sum of north and east components)
H _n	Practical ceiling
H _c	Coercive force; reluctivity
(H _c)	Height of plane grounded
H _m	Theoretical ceiling
H _d	Intensity of demagnetizing field of magnet
H _e	Intensity of external magnetic field
H _i	Horizon of instrument
H _i	Intensity of internal magnetic field
H _j	Reading of flight altitude by the altimeter
H _m	Absolute ceiling of airplane
H _p	Practical ceiling of airplane
H _T	Altitude of airplane above mean level of given terrain; photographic altitude
H _T	Intensity of terrestrial magnetic field (total)
H _u	Maximum working altitude
H'	Rear principal point
H _O	Intensity of demagnetizing field
h	Height

h	Amplitude of wave
h	Altitude of ray incidence to system
h	Height of float
h	Altitude of planet above horizon
h	Height of layer of atmospheric precipitation
h	Depth
h	Depth of flow of under water
h	Metacentric height
h	Quantum constant of planck
h - h	Direction of principal horizontal on aerial photograph
h	Relative pitch of propeller
h	Planck's constant
h	Transcendence of one point of ground surface above another
h	Transcendence of one point of terrain above another
h	Difference of altitudes
h	Distance between wing chords
h	See, f, g, G, h, H, i, f', g', G'.
h_A	Altitude of airdrome above sea level
h_a	Transcendence of mean level of relief of terrain above airdrome
h_B	Metacentric transversal height
h_n	Height of ledge of T-reinforced concrete section
h_{wg}	Thickness of welded seam along leg of right triangle
$h_c - h_c$	Direction of line of undistorted scale
h_m	Mean difference of altitudes within one aerial photograph

$h_i - h_i$	Direction of line of horizon on aerial photograph
h_L	Metacentric longitudinal height
h_o	Height of wave in reservoir
h_o	Useful height of reinforced concrete section
h_e	Elevation of mean relief level of terrain above sea level
h_1, h_2, \dots, h_k	Height of incidence of ray at 1st, 2nd, kth refracting surfaces
h'	Height of exit of ray from system
I	Intensity of radiation
I	Magnetic dip
I	Moment of inertia
I	Intensity of light; intensity of light of point source
I	Angular density; light intensity intensity of radiant flux
I	Inclination
I	Enthalpy; heat content
I_d	Residual magnetization of body
I_{max}	Maximum magnetization; maximum intensity of magnetization
I_{med}	Median magnetization; median intensity of magnetization
I_r	Residual magnetization of substance; residual intensity of magnetization of substance
I_s	Intensity of magnetization of saturation; magnetization of saturation
I_λ	Intensity of radiation of X-rays of λ wave length
I_λ	Intensity of light of a monochromatic radiant flux of wave length λ ; angular density of wave length λ
I_o	Intensity of radiation of X-rays on the surface of the

i irradiated medium
i Principal convergence point of aerial photograph
i Altitude of horizontal rotation axis of instrument's telescope, above the ground
i Coefficient of rigidity
i Inclination of the alidade axis relative to the horizon
i Transmission ratio
i Radius of inertia
i Intensity of current; current
i See f, g, G, h, H, i, f', g', G'.
i Heat content
i Heat content of superheated steam
i Angle of inclination of plane of motion relative to plane of ecliptic
i Angle of incidence of light ray
i Inclination
 i_x, i_y, i_z Radii of inertia relative to the axes
 i' Angle of refraction of light ray
 i' Heat content of liquid at the moment of incipiency of vaporization
 i'' Heat content of dry superheated steam
J Coefficient of resistance
J Moment of inertia
J Magnetization; intensity of magnetization
J Intensity of vortex filament; intensity of vortex
J Intensity of light
J Specific intensity of light
 J_x, J_y, J_z Moments of inertia relative to the coordinate axes XY, ZX, ZY.

J_{xy}, J_{zx}, J_{zy} Centrifugal moments of inertia relative to axes
 X, Y, Z.
 j Acceleration
 (j) Linear acceleration
 (j) Total acceleration of point
 (j_A^n) Normal acceleration of point A.
 (j_A^t) Tangential acceleration of point A
 j_{BA} Total acceleration of point B relative to point A
 of the same link
 (j_{BA}^n) Normal acceleration of point B relative to point A
 of the same link
 (j_{BA}^t) Tangential acceleration of point B relative to point
 A of the same link
 j_K Coriolis' acceleration
 K Efficiency
 K Coefficient of scale alteration in reproduction
 K Coefficient of refraction
 K Moment of inertia of magnetic system
 K Relative visibility
 K Forward junction point
 K Absorption of light per centimeter of path
 K Constant of continuous wedge
 K Discharge characteristic
 (K) Intensity of electric field; electric force
 K, L, M, N Series of characteristic spectrum of X-rays
 $K, L_I, L_{II}, \dots, L_{III}, \dots, M_I, M_{II}$ Energy levels of atom
 K_z Hydrodynamic efficiency

K_{np}	Constant of development kinetics
K_c	Constant of stepped wedge
K_φ	Coefficient of filtration
K_{f_1}	First power of light filter
K_{f_2}	Second power of light filter
K_λ	Relative visibility of monochromatic light of wave length λ
K'	Rear junction point
k	Gauss' constant
k	Performance by weight
k	Taper
k	Coefficient of scale alteration in reduction
k	Coefficient of flotation margin
k	Coefficient of expenditure fluctuation (ratio of maximum hourly expenditure to average hourly expenditure on a yearly basis)
k	Coefficient of light quenching

k	Coefficient of coupling
k	Coefficient of heat transfer
k	Coefficient of rolling friction
k	Coefficient in correction for temperature of cold end of thermocouple
k	Coefficient of filtration
k	Constant annual $\frac{r}{A}$ eberation
k	Number of propeller blades
(k)	Scale

k_θ Degree of saturation of ground interstices by water
k' Coefficient of scale alteration in transformation
k' Coefficient of light absorption
k' Constant daily aberration
L Geodesic longitude
L Distance of flight
L Length
L Length of cone
L Length of dam along crest
L Length of landing run
L Length of take off run
L Length of airplane
L Length of seconds pendulum
L Inductance; coefficient of self-induction
L Interval of exposure
L True longitude of the sun
L Momentum moment of system (principal)
L Momentum moment of point
L Reading of limb with "circle left"
L Reading of the horizontal or vertical circle with the
vertical circle disposed to the left
L Total length of boat
L Work
L Distance from center of gravity of the airplane to
hinges of tail group
L Light energy
L Latent heat

L	Photographic latitude
L	See K, L, M, N.
(L)	Power
(L)	Work
2L	Length of wave in reservoir
<u>L_{2.0}</u>	Distance from center of gravity of airplane to the hinges of horizontal tail group.
<u>L_K</u>	Length of stern portion of boat
<u>L_{all}</u>	Length of between steps portion of boat
<u>L_M</u>	Length of one itinerary of photographing
<u>L_H</u>	Length of prow portion of boat
(L _{now})	Distance of flight
(L _{ny})	Landing run
(L _{pas})	Take off run
L _{AB}	Distance between points A and B of link
L _g	Useful interval of exposure
L _{i,k}	Mutual inductivity; coefficient of mutual induction
L _{max}	Total interval of exposure
L _N	Total length of photographic itineraries (laid down during one flight)
L _S	Total length of all photographic itineraries within the given area.
L _s	Grading of photographic paper, corresponding to the useful width of negative emulsion
L _s	Useful width of the emulsion
L _x , L _y	Lines limiting area covered upon terrain by one aerial photograph
L _I , L _{II} , L _{III}	See K, L _I , L _{II} , L _{III} ... M _I , M _{II}
<u>L</u>	Aspect ratio of boat or float

1	Altitude of sighting point above ground
1	Heliocentric longitude of heavenly body
1	Length
1	Length of wing float
1	Span of wings
1	Rated length of cone
1	Wetted length
(1)	Course
<u>1_z.0</u>	Span of horizontal tail group
<u>1_x</u>	Length of stern portion of float
<u>1_y</u>	Length of prow portion of float
<u>1_o</u>	Interval of brightness of object
<u>1_e</u>	Span of aileron
<u>1_{AB}</u>	Distance between points A and B of link
<u>1_i</u>	Interval of illumination of optical image
<u>1_n</u>	Total length aerial photography film
<u>1_t</u>	Length of tape, wire or rod at temperature
<u>1_p</u>	Side of aerial photograph parallel to the axis of abscissæ
<u>1_y</u>	Side of aerial photograph parallel to the axis of ordinates
<u>1_z</u>	Correction for displacement of zero point
M	Mutual inductivity; coefficient of mutual induction
M	Moment of rotation
M	Mean ^G Greenwich time, reckoned from noon
M	Moment of flexure
M	Mass discharge
M	Molecular weight

M	Moment of couple of force
M	Bearing moment of flexure
M	Total aerodynamic moment
M	Total hydrodynamic moment
M	Moment of force
M	Moment of force relative to a point
M	Curvature radius of meridian section of terrestrial spheroid
M	See, K, L, M, N
M	Mean anomaly
M	Mean solar ^G Greenwich time
(M)	Mass
M _O	Zero point of vertical circle
M _Z	Zenith point of vertical circle
M _a	Number of ^M Mach
M _K	Moment of torsion
M _g	Center moment
M _S	Meridian point of horizontal circle
M _x , M _{y₁}	Moment of bank
M _y , M _{y₁}	Moment of yawing
M _z	Point of zenith of vertical circle
M _x , M _{z₁}	Moment of pitching
M _φ	Moment of longitudinal trim
M _ψ	Moment of drift
M _o	Mean anomaly of epoch
M _I , M _{II}	See K, L _I , L _{II} , L _{III} ... M _I , M _{II}
L:M	Numerical scale of photoplan

m	Quantity for computation of precession in right ascension
m	Apparent magnitude of star
m	Coefficient of weir discharge
m	Magnetic mass
m	Maximum linear scale
m	Mass
m	Mass of link
m	Mass of planet or comet
m	Mass of a point
m	Local mean time, reckoned from noon
m	Mean solar time (local)
m	Number of phases
m_c	Civil time (local)
m_M	Coefficient of aerodynamic moment (total)
m_{M_0}	Coefficient of moment at zero lift force
m_y, m_{y_t}	Coefficient of bank moment
m_y, m_{y_t}	Coefficient of yawing moment
m_z, m_{z_t}	Coefficient of pitching moment
m_A	Coefficient of moment by width and load
l:m	Numerical scale of aerial photograph along line $h_c - h_c$ (line of undistorted scale)
l:m	Numerical scale of transformed aerial photograph
l: m_h	Numerical scale along principal horizontal
l: m_v	Numerical scale along principal vertical

-357 -

N	Magneto <i>e</i> metric coefficient of demagnetization
N	Power
N	Normal force
N	Constant nutation
N	Longitudinal force
N	Projection of nadir point of aerial photograph upon terrain
N	Radius of curvature of terrestrial spheroid Section perpendicular to the meridian section
N	See K, L, M, N
N	Point of North
N	Stress in rod, general denotation
N	Number of waves per one centimeter
N	Number of itineraries
N _e	Effective power
N _{nom}	Nominal power
N _n	Needed power
N _p	Available power
N _{op}	Operation power
N _B	Ballistic coefficient of demagnetization
N _b	Ballistic coefficient of demagnetization of a permanent magnet
N _{max}	Maximum power
N _p	Number of itineraries per one flight
N _Σ	Number of itineraries within area of photographing (S_{Σ})
n	Valency

n	Quantity for computation of precession in declination
n	Coefficient of refraction
n	Coefficient of roughness
n	Minimum linear scale
n	Ratio of elasticity moduli of materials
n	Reading of magnetometer or along ordinate of magnetogram
n	Index of refraction
n	Index of refraction of medium preceding the system
n	Porosity
n	Order of diffractional image
n	Mean daily motion
n	Point of nadir on aerial photograph
n	Number of aerial photographs (numbered using arabic numerals)
n	Number of all links of a kinematic chain
n	Number of revolutions of link per minute
n	Number of revolutions per unit of time
n	Number of revolutions per minute
(n)	Number of turns in winding
n_o	Index of refraction of ordinary wave
n_c	Index of refraction for c-line of hydrogen
n_d	Index of refraction for D-line of sodium
n_f	Index of refraction for F-line of hydrogen
n_g	Index of refraction for G-line of hydrogen
n_e	Index of refraction of extraordinary wave
n_L	Number of aerial photographs per one itinerary
n_p	Number of aerial photographs per flight
n_s	Speed coefficient of turbine

n_S	Number of aerial photographs within area S
n_s	Number of revolutions per second
n'	Index of refraction of medium following the optical system
n_{Σ}	Total expenditure of aerial photographs for the entire area of photographing (S_{Σ})
σ	Stress in upright of upper zone of framework constructions
O	Central projection of principal point of aerial photograph upon the terrain
Ox	Direction of flight velocity
Ox_1	Longitudinal axis
Oy	Axis of lift force, located within the plane of symmetry of the airplane and perpendicular to Ox
Oy_1	Normal axis
Oy_2	Vertical axis
Oz	Axis of lateral force
Oz_1	Transversal axis
o	Principal point of aerial photograph
o_{ϕ}	Vertex of angles in photo - triangulation
P	Active power
P	Temporary point load; temporary point loading
P	Pressure; force per unit of surface; tension
P	Power
P	Power of radiation
P	Perimeter of theodolite traverse
P	Plane of the negative; picture plane
P	Lift force of airplane

P	Polarization
P	Constant precession
P	North pole
P	Pressure force
P	Concentrated load; point load
P	Point of intersection of plane of aperture stop with the optical axis
P	Thrust of propeller
P	Photometric equivalent
(P)	Momentary rotation center of link; momentary center of velocities
P_D	Power of physical dosage
P_{D_0}	Power of physical dosage of X-rays on the surface of irradiated medium.
P_u	Force of inertia
P_a	Momentary center of acceleration of link
P_a	Power of radiation of X-rays absorbed by the irradiated medium
P_f	Power in Foucault currents; losses by Foucault currents
P_h	Power in hysteresis; losses by hysteresis
P_{hf}	Power in hysteresis and Foucault current: losses by hys- teresis and Foucault currents
(P_j)	Momentary center of acceleration of link
P_v	Momentary center of rotation of link; momentary center of velocities
P_λ	Power of radiation of X-rays of wave length λ
P_o	Power of radiation of X-rays striking the surface of the irradiated medium

P_1, P_2, P_3 Number of kinematic couples of 1st, 2nd, 3rd etc.
etc. class
 $\frac{1}{P}$ Covering capacity
 P' Point of intersection of the plane of field stop
with the optical axis
 P' South Pole
 P_{E} Equatorial horizontal parallax of the moon at
median distance from earth
 p Temporary distributed load; temporary uniform load
 p Horizontal parallax; longitudinal parallax
 p Pressure
 p Pressure; force per unit of surface; tension
 p Excess pressure
 p Area distortion
 p Coefficient of formula of magnet interaction on
development by power
 p Coefficient of Schwartzschild
 p Cyclic frequency
 p Load per m^2 ; specific load
 p Pressure
 p Parallax of planet
 p Perimeter
 p Half-perimeter of a triangle
 p Distance along the optical axis from object and image
to aperture stop
 p Uniform load
 p Specific pressure; pressure

p	Value of one division of the planimeter (absolute)
(p)	Momentary center of velocities
(p)	Pole of the velocity plane
(p)	Pole of a velocity bundle
p_a	Absolute pressure
p_a	Pole of acceleration plane
p_a	Pole of an acceleration bundle
p_b	Atmospheric pressure; barometric pressure
p_e	Actual value (of measured) pressure
p_f	Specific power in Foucault currents; specific losses by Foucault currents
p_{fv}	Volumetric power in Foucault currents; volumetric losses by Foucault currents
p_H	Atmospheric pressure at altitude H
p_h	Vacuum; rarefaction
p_h	Specific power in hysteresis; specific losses by hysteresis
p_{hf}	Specific power in hysteresis and Foucault currents; specific losses by hysteresis and Foucault currents
p_{hfv}	Volumetric losses by hysteresis and Foucault currents; volumetric power in hysteresis and Foucault currents
p_{hv}	Volumetric losses by hysteresis; volumetric power in hysteresis
p_i	Reading of instrument
(p_j)	Pole of acceleration plane
(p_j)	Pole of acceleration bundle
p_m	Limit pressure of instrument

p_n	Permissible pressure of instrument
p_s	Value of one division of planimeter; expressed in land measures (scalar or relative)
P_v	Pole of velocity plane
P_b	Pole of velocity bundle
p'	Distance along the optical axis from object and image to field stop
P_{\odot}	Equatorial horizontal parallax of the sun at median distance from the earth
\bar{P}	Pressure coefficient
Q	Principal plane of objective
Q	Amount of light
Q	Amount of heat
Q	Amount of warmth
Q	Coefficient of Callier
Q	Head resistance
Q	Head resistance of airplane
Q	Volumetric discharge
Q	Intersecting force; transversal force
Q	Constant number of polar planimeter
Q	Reaction power
Q	Force
Q	Concentrated load; point load
Q	Heat producing capacity; heat value
Q_u	Force of inertia
Q_z	Tangential resistance force
(Q_{xy}, Q_{zy}, Q_{zx})	Centrifugal inertia moments relative to axes XY, ZX, ZY

q	Vertical parallax; transversal parallax
q	Weight of the total amount of fuel and oil
q	Charge; amount of electricity
q	Amount of heat
q	Power of light filter
q	Angle of parallax
q	Total distributed load; total uniform load
q	Distance of perihelion of parabolic orbit from sun
q	Discharge per unit of flow width
q	Velocity thrust (dynamic pressure)
q	Uniform load
q _a	Weight of aerial navigation equipment
q _e	Weight of crew
q _f	Weight of photographic equipment (aerial)
q _n	Hourly expenditure of fuel and oil
q ₁ , q ₂ , q ₃ ...	Number of kinematic couples of 1st, 2nd, 3rd etc class
R	Aerodynamic force
R	Gas constant
R	Ground pressure; force of ground pressure
R	Length of arms of polar planimeter
R	Coefficient of reflection of body; reflective power of body
R	Magnetic resistance
R	Reading of limb with "circle right"
R	Reading of horizontal or vertical circle with vertical circle located to the right
R	Total reaction of support
R	Total hydrodynamic force

R	Projection of radius of useful area upon terrain
R	Radius
R	Radius of propeller
R	Radius of veering
R	Resolving power of photographic layer
R	Distance between centers of deflecting and deflected magnets
R	Reaction of support in spatial system; total reaction
R	Reaction of support in flat system; total reaction
R	Luminosity; luminousness
R	Force
R	Mean radius of curvature
Re	Reynolds number
R_{u_4}	Radius of circulation
R_c	Resolving power
R_i	Radius-vector of earth at moment t_i , wherein $i = 1, 2, 3 \dots$
R_s-	Surface electrical resistance for direct current
R_t	Electric resistance of platinum resistance thermometer, at temperature t
R_v	Rated radius of range of airplane
R_v-	Volumetric electrical resistance for direct current
R_w	Actual radius of range of airplane
R_1	Length of arms of polar planimeter
R_\odot	Geocentric angular radius of the sun
R_-	Electric resistance of dielectric for direct current
r	Effective resistance
r	Coefficient of brightness
r	Polar coordinates
r	Polar radius-vector (polar coordinates)
r	Correction of direction for reduction in seconds of arc

r	Correction of pitch of micrometer screw per turn (run)
r	Reduction of zenith distance of planet to meridian
r	Radius
r	Radius-vector
r	Radius-vector of heavenly body
r	Radius of parallel
r	Radius of useful area of aerial photograph
r	Radius of spherical surface
r	Latent heat of evaporation
r	Running radius of propeller
r	Heat of evaporation, for one kilogram
(r)	Radius of curvature
r_a	Radius-vector relative ^{to a} certain point a
r_e	external radius of a pipe
r_s-	Surface electrical resistance for direct current
r_x, r_y, r_z	Radii of inertia relative ^{to} axis X, Y, Z
r_-	Electric resistance of dielectric for direct current
r_v-	Volumetric electrical resistance for direct current
\bar{r}	Relative radius of propeller
S	Vector of Poynting (power per unit of area)
S	Greenwich sidereal time
S	Length of arc, arch, dome
S	Sidereal mean Greenwich time
S	Apparent power
S	Coefficient of reflection
S	Carrying area of wings

S Total light sensitivity
S Period of one half of complete oscillation; duration
of pendulum wing
S Area
S Area covered on terrain by one aerial photograph
S Area of diagram
S Area of conic connection
S Light sensitivity
S Sidereal year
S Wetted area of boat or float
S Static moment of section
S Point of south
S Stress in rod, general denotation
S Center of projection
S Center of gravity of link
S Entropy
(S) Area
S A Area of coverage, upon terrain, by the useful area of a
single set of aerial photographs
S a Area of coverage, upon terrain, by a single set of
aerial photographs
S e Area of elevator
S v.o Area of vertical tail group
S h.o Area of horizontal tail group
S k Area of keel
S r Area of rudder
S m Area of midship section

S _{m,φ}	Area of midship section of fuselage
S _{mp}	Area of trimmer
S _{cm}	Area of ^s tabilizer
S _w	Area of flap
S _g	Area of aileron
S _h	Strouhal's number
S _m	Sidereal mean Greenwich time
S _N	Area of photographic of single flight
S _R	Area of coverage of terrain by the useful dimensions of the aerial photograph
S _λ	Monochromatic light sensitivity; spectral light sensitivity
S _φ	Effective light sensitivity
S _{Σ'}	Area of photographed sector
S _o	Greenwich ^s idereal time at mean midnight
S _o	Light sensitivity determined by means of conventional- quantity of the difference between density and fog
S	Length of geodesic line of normal section between two points of spheroid
S	Length of arc, arch, dome
S	Length of arc of the normal section between two points of spheroid
S	Length of path
S	Unit of light sensitivity
S	Sidereal true time (local)
S	Sidereal quasittrue time (local)
S	Sidereal mean time (local)
S	Local sidereal time

s	Modulus of discharge
s	Area of useful section
s	Area of one aerial photograph
s	Path
s	Path of a point of the link
s	Distance along the optic axis from point of intersection of incident ray and optic axis to vertex of refracting surface
s	Gliding, relative
s	Daily correction of chromometer ⁿ
s	Entropy
s	Entropy of superheated steam
s _a	Area of rectified set of aerial photographs photographed by means of multiple objective aerial photography apparatus
s _E	Area of rectified or transformed aerial photograph
s _i	Useful area of a rectified or transformed aerial photograph
s _m	Sidereal mean time (local)
s _{qu}	Sidereal quasittrue time (local);
	sidereal time (local)
s _r	Useful area of one aerial photograph
s _v	Sidereal true time (local)
s ₀	Local sidereal time at mean local midnight
s'	Distance along optic axis from point of intersection of issuing ray with optic axis to the vertex of refracting surface
s'	Entropy of a liquid at the moment of incipiency of vaporization

s" Entropy of dry saturated steam
T Absolute temperature
T Time (in dimensional formulas)
T Directional joint
T Kinetic force; kinetic energy
T Kinetic force of a system
T Tangential force
T Coefficient of transmission of a body, limited by two parallel planes; transmittance power of a body limited by two parallel planes
T Power in kilograms/seconds
T Intensity of terrestrial magnetic field (total)
T Total length of flight
T Period
T Period of magnet swing
T Period of oscillation
T Period of revolution of heavenly body around the sun
T Period of one half of a complete oscillation; duration of a pendulum swing
T Plane of terrain; object plane
T Clock reading
T Shearing force
T Braking force
T Temperature, measured from 0°K (absolute scale).
T Tropical year
(T) Kinematic force; kinematic energy
T - T Line of base, line of intersection of picture plane with plane of object

T _A	Time required for descent from altitude H to the airdrome
T _B	Time expended per one approach
T _C	Color temperature
T _D	Time of flight over distance D
T _f	Photographing time of one flight
T _H	Time of gaining altitude H
T _i	Zone time
T _L	Time expended on laying one photographic itinerary
T _R	Time of flight over distance R
T _r	Radiation temperature
T _S	Time, expended on photographing area S
T _s	Black temperature, luminosity temperature
T _s	Black temperature of source
T _w	Time expended on determination of aerial navigation elements; chronometric timing
T _{Z'}	Total expenditure of flight hours
T _o	Universal time
T _O	Greenwich civil time; universal time
T ₁ , T ₂ ...	Local civil (zone) time of first, second, etc. zone
T°	Absolute temperature; absolute temperature of air
T'	Directional angle on plane
t	Time
t	Time of illumination of photograph; exposure
t	Temperature; centigrade temperature
t	Temperature of the air
t	Temperature measured from 0°C (international centigrade scale)
t	Temperature ^{by} at scale C.
t	Accuracy of vernier (nonius)
t	Hourly angle

t	Hourly angle of planet
t_A	Temperature of aneroid
t_A'	Temperature of air at airdrome
t_{np}	Time of development
t_{gr}	Temperature gradient
t_H	Temperature of air at altitude H
t_o	Period of induction
t_p	Temperature, measured - using scale of a gas thermometer of constant volume ($v=const$)
t_v	Temperature, measured using scale of a gas thermometer of constant pressure ($p=const$)
t_w	Time of run of sighted terrain point in determining ground speed
t_Z	Temperature of air at altitude Z
t_{Σ}	Total time of illumination; total exposure
t_s	Temperature at sea level
t_{\odot}	True solar time (local)
t^o	Temperature
t^o	Temperature of air
U	Internal energy
U	Expression $\frac{\tan(45^\circ + 0.5\varphi)}{\tan^e(45^\circ + 0.5\varphi)}$
U	Contrast of object
U	Correction of clock relative to Greenwich time
U	Potential energy; expansible energy
U	Force function
U	Wind velocity

U Stress in upright of lower zone of framework
 U Energy
 (U) Momentary acceleration center of link
 (U) Pole of acceleration plane
 (U) Pole of acceleration bundle
 (U) Energy
 u Argument of latitude
 u Internal energy
 u Internal energy of superheated steam
 u Correction of clock relative local time
 u Corrected latitude
 u Difference of potentials
 u Velocity
 u Velocity of rise (vertical) of an airplane
 u Electric voltage
 (u) Linear velocity
 (u) Perimeter
 (u) Electromotive force
 u' Internal energy of a liquid at the moment of incipiency of vaporization
 u'' Internal energy of dry saturated steam
 V Visibility
 V Aerial velocity of airplane (relative to medium)
 V Expression: $\sqrt{1+e'^2 \cos^2 \varphi}$
 V Total amount of water in volumetric units (flowing

	through turbine or hydrostation over a certain interval of time)
V	Volume
V	Forward vertex focal distance
V	Reaction of support; vertical component
V	Velocity of flight
V	Velocity of flow
V	Stress in pillar of framework
V - V	Projection of direction of principal vertical upon terrain
(V)	Velocity of point of link
v_e	Economic speed of airplane
v_x	Cruising speed
v_{x_p}	Critical velocity
$v_{x_{puc}}$	Cruising speed
v_H	Optimum horizontal velocity on gaining altitude
v_{omph}	Velocity at breaking contact with water
v_{noc}	Velocity at landing
v_{nr}	Speed of development
v_{max}	Maximum velocity of horizontal flight (at all altitudes of flight)
v_{max}	Maximum velocity of airplane
v_{min}	Landing velocity of airplane (minimum)
v_u	Optimum velocity of airplane
v_y	Vertical velocity
v_λ	Visibility of monochromatic light
v_1	Forward vertex refraction of lens

v_2	Rear vertex refraction of lens
v	True anomaly
v	Linear velocity
v	Volume of superheated steam
v	Distance from forward vertex to forward focus;
v	forward vertex focal distance
v	Velocity
v	Velocity of a point of the link
$v - v$	Direction of principal vertical on aerial photograph
v_{BA}	Velocity of motion of point B relative to point A of the same link
v_j	Speed of motion of film in rewinding
v_h	Velocity of liquid in ascending pipe
v_s	Velocity of liquid in suction pipe
v_o	Velocity of water flow at dam
v_{max}	Maximum ground speed of horizontal flight
v_{21}	Velocity of second link relative to first in for- ward motion (forward couple - 2, 1)
v'	Rear vertex focal distance
v'	Volume of liquid at moment of incipiency of vaporiza- tion
v''	Volume of dry saturated steam
w	Expression: $\sqrt{1-e^2 \sin^2 \varphi}$
w	Hydrodynamic resistance
w	Complex potential
w	Moment of resistance
w	Volume of water in reservoir

W	Ground speed of airplane (relative to the ground)
W	Work
W	Wind velocity; flow velocity
W	Point of West
W	Number of order of freedom of mechanism
W	Energy
W	Energy of radiation of X-rays, passing through given area over given time
(W)	Work
W_a	Energy of radiation of X-rays, absorbed by the irradiated medium
W_λ	Energy of radiation of X-rays of wave length λ
W_o	Energy of radiation of X-rays striking a given area of irradiated medium
W_∞	Velocity of flow at a distance from body
w	Complex potential
w	Relative humidity in percent
w	Density of magnetic energy
w	Work
w	Velocity
w	Number of turns of winding
(w)	Linear velocity
w_{max}	Maximum density of magnetic energy
X	Reaction of support in spatial system; component reaction along coordinate axis
X	Northern component of intensity of terrestrial field
X	Force by flight velocity
X	Magnification, axial

X, Y, Z	Rectangular geocentric equatorial coordinates of the sun
x_1	Tangential force
x	Vapor content of mixture
x	Distance along optic axis from object and image to forward (principal) focus
x	Reactance
x, y	Coordinates of a point of an aerial photograph depending upon the direction of projections of coordinate axes of terrain upon plane of the photograph
x, y	Plane coordinates of terrain point
xy	Plane of flow
x,y	Rectangular coordinates
x, y, z	Cartesian coordinates
x,y,z	Rectangular heliocentric equatorial coordinates of heavenly bodies
xz	Plane of sliding
x,z	Coordinates of a point of an aerial photograph depending upon the direction of projections of coordinate axes of terrain upon plane of the photograph
x_{∂}	Coordinate of center of pressure
x_{rc}	Coordinate of center of rigidity
x_m	Coordinate of center of gravity
x_1y_1	Plane of symmetry
x_1z_1	Principal plane; plane of wings
x'	Distance along optic axis from object and image to rear (principal) focus
Y	Eastern component of intensity of terrestrial field
Y	Hydrodynamic lift force
Y	Lift force

Y	Transversal linear magnification
Y	Distance from point to optic axis
Y	Reaction of support in spatial system; component of reaction along coordinate axis Y.
Y	See X, Y, Z.
Y_λ	Density of intensity in spectrum
y	Total conductivity
y	Distance of neutral axis of section from terminal compressed thread
y	See x, y, z.
$y z$	Front plane
y_1	Normal force
$y_1 z_1$	Transversal plane
y'	Distance from image to optic axis
Z	Absolute altitude of airplane (above sea level)
Z	Lateral force
Z	Altitude coordinate of terrain point
Z	Vertical component of intensity of terrestrial field
Z	Zenith
Z	Location of zero point
Z	Reaction of supports in spatial system; component of reactions along coordinate axis Z
Z	See X, Y, Z.
Z_t	Location of zero point following temperature t, in thermometer which had been subjected to ageing
z_1	Transversal force
z'	Nadir
z	Zenith distance

z	Zenith distance of planet
z	Total resistance
z	Location of zero point
z	See x,y,z.
z_m	Zenith distance of planet in median
z_t	Location of zero point after temperature t

2. Greek Alphabet

α	Directional angle in plane
α	Coefficient of concentration
α	Coefficient of Coriolis
α	Coefficient of linear expansion
α	Coefficient of absorption
α	Coefficient of heat emission
α	Coefficient of propeller thrust
α	Coefficient of electric resistance (temperature)
α	Constant of phase displacement
α	Right ascension of planet.
α	Oblate of terrestrial ^r spheroid
α	Angle amplitude of magnet oscillation
α	Angle of attack of wing
α	Angle of inclination
α	Angle of inclination, relative to optic axis, of entering ray
α	Angle of deviation of optic axis of photographic apparatus from the vertical.
2α	Angle of cone

$[\alpha]$	Rotation power of liquid (basic denotation with parentheses)
(α)	Rotation power of body (basic denotation with parentheses)
$[\alpha]$	Specific rotation power of dissolved body (basic denotation with parentheses)
α, β, γ	Angles
α, β, γ	Plane angles
α_A	Temperature coefficient of aneroid
α_A	Angle of attack CAK
(α_b)	Coefficient of propeller thrust
α_u	True angle of attack
α_M	Given magnetic travel angle
α_{nL}	Temperature coefficient of development
α_i	Temperature coefficient of instrument
α_N	Given true travel angle
α_x	Transversal bank
α_x	Projection of angle α upon coordinate plane ZOY
α_y	Latitudinal inclination
α_y	Projection of angle α upon coordinate plane ZOX
α_z	Projection of angle α upon coordinate plane XOY
α_0	Angle of attack at $c_y = 0$
α'	Angle of inclination, relative to optic axis, of issuing ray.
β	Interval angle of transversal careening at stop
β	Coefficient of propeller power
β	Coefficient of volumetric expansion
β	Coefficient of contrast loss.

β	Plane angle
β	One half of true field of vision
β	Constant of attenuation
β	Anti-capotage angle
β	Angles (See α , β , γ)
β	Angle of bank of airplane wings
β	Angle formed by optical axis of the objective of an aerial photographic apparatus with the sighting ray
β	Angle of flow direction with profile of propeller blade, measured within plane of rotation
β	Angle of sliding
β	Latitude of planet
2β	True field of vision
(β_8)	Coefficient of propeller power
β_M	Actual magnetic travel angle
β_N	Actual true travel angle
β_x	Projection of angle β upon plane ZOY
β_y	Projection of angle β upon plane ZOX
β_z	Projection of angle β upon plane XOY
β'	External angle of transversal careening at stop
β'	One half of apparent field of vision
$2\beta'$	Apparent field of vision
Γ	Intensity of vortex line; intensity of vortex
Γ	Velocity circulation
γ	Weight of unit of volume
γ	Coefficient of contrast
γ	Coefficient of volumetric expansion
γ	Plane angle (see α , β , γ)
γ	Error of instrument reading

γ	Constant of wave propagation
γ	Specific conductivity
γ	Convergency of meridians within plane
γ	Point of vernal equinox
γ	Specific weight
γ	Angle of convergence
γ	Angle of bank
γ	Angle of displacement; relative displacement
γ	Center angle
(γ)	Volumetric weight
(γ)	Relative weight
γ_K	Compass course
γ_M	Magnetic course
γ_o	Volumetric weight
γ_{o5}	Volumetric weight
γ_{om}	Reactive weight
γ_y	Specific weight
γ_{max}	Maximum coefficient of contrast
γ_N	True course
γ_n	Tolerance
γ_s	Convergence of meridians on spheroid
γ_s-	Specific surface electric conductivity for direct current
γ_v-	Specific volumetric electrical conductivity for direct current
γ_w	Progress course
γ_0	Theoretically normal magnitude of acceleration (intensity) of gravitation force, reduced to surface of computation

γ_1	Angle of longitudinal careening of the portion between stops
γ_2	Angle of longitudinal careening of stern portion
γ_∞	Limit coefficient of contrast
Δ	Compass variation
Δ	Height of roughness protuberances
Δ	Geocentric distance of planet in astronomical units
Δ	Brightness detail
Δ	Load on water
Δ	Optic interval
Δ	Optical difference of paths of two rays
Δ	Relative length of rod
Δ	Ratio of air density at altitude to air density at the ground
Δ	Error (of line lengths, location of points, values of angles)
Δ	Spatial changes of elements of terrestrial magnetism
Δ	Layer of one-half reduction
Δ	Angle of twist of thread
Δ_k	Compass deviation
Δ_M	Magnetic declination
Δ_ϕ	Photographic brightness detail
Δ_{ij}	Mutual distance of two heavenly bodies of mass m_i and m_j respectively
Δ_i	Geocentric distance of heavenly body at moment i
Δ_v	Lack of sharpness due to flight velocity
Δ_B	Difference of geodesic latitudes

ΔD	Interval of density of photographic reproduction
ΔD_g	Useful density interval
Δg	Anomaly of acceleration (intensity) of gravitation force, with reduction, in free air (if required taking into account topographic correction)
ΔH	Correction for flight altitude (summative)
Δh	Altitudinal error of closure in leveling traverse (direct and reverse)
ΔL	Difference of geodesic longitudes
Δl	Absolute elongation; absolute longitudinal deformation on stretching
$\Delta \ell$	Absolute contraction; absolute longitudinal deformation on compression
ΔP	Linear error of closure of perimeter of theodolite traverse
Δp	Excess pressure
ΔQ	Error of closure in angles of theodolite traverse
$\Delta_h R$	Linear distance on terrain corresponding to the linear displacement on the aerial photograph due to relief
Δ_{hr}	Linear displacement on aerial photograph due to relief
ΔS	Error of closure in area by comparison with result of area computation
$\Delta \epsilon$	Nutation in inclination
$\Delta \lambda$	Difference of geographic longitudes (astronomic)
$\Delta \phi$	Difference of geographic latitudes (astronomic)
$\Delta \psi$	Nutation in longitude

- δ Variations in time of elements of terrestrial magnetism
 δ Detail of blackening
 δ Coefficient of quenching (in time)
 δ Coefficient of movement variation
 δ Coefficient of formula of Callendara, used as criterion of quality of platinum
 δ Error in distance between bisectors of micrometer hair lines (in angular measurements)
 δ Correction for curvature in reproduction of geodesic line
 δ Phase difference of two oscillations
 δ Reduced thickness of lens
 δ Deviation of magnetic needle
 δ Declination of planet
 δ Thickness of wall etc.
 δ Thickness of wall of pipes, vessels etc.
 δ Angle of dielectric losses
 δ Angle of deflection of flight controls
 (δ) Absolute elongation; absolute longitudinal deformation on stretching
 (δ) Absolute contraction; absolute longitudinal deformation on compression
 (δ) Relative elongation
 (δ) Thickness of wall; board; side of metal beam etc.
(dimensions of transversal sections and their elements)
 δ_e Angle of deflection of elevator
 δ_k Compass direction of wind

δ_M	Magnetic direction of wind
δ_H	Angle of deflection of rudder
δ_E	Angle of deflection of aileron
δ_N	True direction of wind
δ_R	Reduction drop
δ_z	Reduction drop
$\delta_i a, \delta_i e, \delta_i \theta$	Disturbances of elements a, e, θ , of order i relative to the disturbing masses
ϵ	Dielectric permeability; dielectric constant
ϵ	Coefficient of gliding
ϵ	Coefficient of integral radiance
ϵ	Coefficient of porosity
ϵ	Coefficient of compression
ϵ	Inclination of plane of equator relative to plane of ecliptic
ϵ	Relative elongation; relative longitudinal deforma- tion on stretching
ϵ	Relative contraction; relative longitudinal deforma- tion on compression
ϵ	Constant of magnetometer
ϵ	Spherical excess of triangle
ϵ	Angular acceleration
ϵ	Angular acceleration of link
ϵ	Angle of wind
ϵ	Angle of deflection of light ray by prism
ϵ	Angle of flow taper
ϵ_c	Coefficient of color radiation

ϵ_2	Coefficient of monochromatic radiation of wave length λ
ϵ_0	Angle of least deflection of light ray by prism
ϵ_{21}	Angular acceleration of second link relative to first
ξ	Rectangular geocentric equatorial coordinates of heavenly bodies (see ξ, η, ζ)
ξ	Component of deviation of vertical line along meridian
η	Coefficient of useful effect
η	Coefficient of useful effect of airscrew
η	Coefficient of taper of wing
η	Mechanical coefficient of useful effect
η	The perpendicular to the meridian component of vertical line deviation by longitude
η	Location of center of gravity in altitude
η	Rectangular geocentric equatorial coordinates of heavenly bodies (see, ξ, η, ζ)
η	Time equation
η	Cartesian coordinates (See ξ, η, ζ)
(η)	Dynamic viscosity coefficient
(Θ)	Precession from planets
(Θ)	Angular element of centering
(Θ)	Angle of attack(of incidence) of airplane wings
(Θ)	Angle of diffraction reflection
(Θ)	Angle of deviation of magnet
(Θ)	Hourly angle
(Θ_n)	Angle of diffraction image of n-th order
(Θ)	Temperature measured from 0°K (absolute scale); absolute temperature.

(Θ_x)	Moment of inertia relative to axis X
$(\Theta_{xy},$	Centrifugal moments of inertia relative to axes XY, ZX,
$\Theta_{zy}, \Theta_{yz})$	ZY.
Θ_z	Angular element of reduction
θ	Linear angle of twist
θ	Polar angle, (^{polar} coordinates)
θ	Refraction angle of prism
θ	Angle of flight trajectory with horizon
(θ)	Temperature measured from 0° C (International centi-grade scale)
ϑ	Polar coordinates
ϑ	Angle of pitching
(ϑ)	Temperature
(ϑ)	Angular acceleration
χ	Coefficient of propeller moment
χ	Magnetic and electric susceptibility
χ	Rotation of negative within its plane around optical axis
χ	Index of light quenching
χ	Angle of sweepback
χ'	Index of absorption
λ	Vertical angle of sighting
λ	Geographic longitude (astronomical)
λ	Flexibility
λ	Wave length
λ	Wave length in vacuo
λ	Length of light wave

λ	Longitude of point of observation
λ	Longitude of planet
λ	Longitude of point of earth surface measured from Greenwich
λ	Coefficient of Darcy-Weisbach
λ	Coefficient of propeller speed; relative pitch of propeller
λ	Coefficient of thermal-conductivity; thermal conductivity
λ	Aspect ratio of wetted surface
λ	Aspect ratio of wings
λ_c	Length of light wave of C-line of hydrogen
λ_d	Length of light wave of D-line of sodium
λ_e	Effective wave length
λ_e	Active wave length
λ_{eff}	Effective wave length; equivalent wave length
λ_f	Length of light wave of F-line of hydrogen
$\lambda_{G'}$	Length of light wave of G'- line of hydrogen
λ_g	Wave length corresponding to limit of absorption of X-rays
λ_{max}	Wave length, corresponding to maximum intensity density in continuous spectrum of X-rays
λ_o	Limit, least wave length in continuous spectrum of X-rays, in vacuo
λ_{21}	Ratio of second link length to length of first link
μ	Annual proper motion of star along great circle
μ	Dynamic viscosity coefficient
μ	Reinforcement coefficient
μ	Coefficient of viscosity

μ	Coefficient of reduction
μ	Coefficient of gliding; inverse efficiency
μ	Coefficient of ^P Poisson
μ	Coefficient of discharge
μ	Magnetic permeability
μ	Scale
μ	Molecular weight
μ	Temperature coefficient of magnetic moment
μ	Value of one division of micrometer knob in seconds
(μ)	Coefficient of strength margin
μ_A	Individual linear scale
μ_a	Initial magnetic permeability
μ_d	Differential magnetic permeability
μ_e	Effective permeability; active permeability
μ_{max}	Maximum magnetic permeability
μ_r	Reversible magnetic permeability
μ_α	Proper motion of star in right ascension annual
μ_A	Magnetic permeability in individual cycle; mean magnetic permeability
μ_δ	Proper motion of star in inclination, annual,
μ_γ	Moment of bank
μ_0	Magnetic permeability of body
ν	Induction coefficient of magnet
ν	Kinematic coefficient of viscosity
ν	Coefficient of dispersion
ν	Frequency of oscillations
ν	Number of oscillations per second
ν	Coefficient of ^P Poisson

ν	Frequency
ν_E	Angle formed by principal planes of objective with plane of screen E
ν_p	Angle formed by principal planes of objective with plane of negative
ν_o	Limiting highest frequency of oscillations in continu- ous spectrum of X-rays
ξ	Location of center of gravity in length
ξ, η, ζ	Rectangular geocentric equatorial coordinates of heavenly bodies
(ξ, η, ζ)	Cartesian coordinates
π	Potential energy; expansible energy
π	Annual parallax of star
π	Longitude of peri helion
π	Proportionality of rendition, expressed by ratio of latitude of photographic paper to gradation
ρ	Internal heat of evaporation, relating to one kilogram
ρ	Horizontal angle of sighting
ρ	Metacentric radius
ρ	Volumetric density of charge
ρ	Density
ρ	Air density
ρ	Polar radius-vector (polar coordinates)
ρ	Radius-vector of point of earth surface, expressed in parts of major half axis of terrestrial spheroid
ρ	Radius of inertia of link
ρ	Radius of curvature
ρ	Refraction

P	Specific resistance
(p)	Polar coordinates
P_A	Radius of curvature of normal section of azimuth A
P'_B	Metacentric transversal radius
P_i	Reduced geocentric distance of heavenly body
P_K	Compass bearing
P_L	Metacentric longitudinal radius
P_M	Magnetic bearing
ρ_N	True bearing
ρ_{s-}	Specific surface electric resistance for direct current
ρ_v-	Specific volumetric electrical resistance for direct current
ρ_0	Density of air at ground
$\bar{\rho}$	Ratio of air density at altitude to air density at ground
σ	Coefficient of haze
σ	Coefficient of scattering (magnetic)
σ	Normal voltage
σ	Surface density of charge
σ	Constant of equation (law) of Stefan-Boltzmann
σ	Reduction to ecliptic
σ	Angle expression of arc of terrestrial spheroid
σ	Specific magnetization
σ	Portion of reduction coefficient, determined by means of the correlation: $\sigma = \mu - \tau$
σ_n	Limit of strength; temporary resistance
(σ_n)	Limit of proportionality

σ_{yp}	Limit of proportionality
σ_{nuy}	Limit of proportionality
σ_{nx}	Limit of durability; temporary resistance
σ_T	Yield point
σ_m	Yield point
σ_y	Limit of elasticity
σ_{yn}	Limit of elasticity
(σ_B)	Limit of strength; temporary resistance
σ_x	Limit of durability for asymmetric cycles
σ_u	Portion of reduction coefficient, determining the energy of emission electrons
σ_1	Limit of durability for symmetric cycles
τ	Interval between two consecutive aerial photographs
τ	Tangential stress
τ	Coefficient of transmittance of absorber
τ	Coefficient of transmission
τ	Linear density of charge
τ	Moment of passage of heavenly body through perihelion
τ	Constant of time
τ	Specific friction force
τ	Angle of deflection of trimmer
τ	Value of division of level in seconds of arc
τ	Part of year from moment of beginning of fictitious year of Bessel
τ	Portion of reduction coefficient, determined by the photo effect
(τ)	Time
τ_e	Angle of deflection of trimmer of elevator

τ_u	Angle of deflection of trimmer of rudder
τ_3	Angle of deflection of trimmer of aileron
τ_λ	Coefficient of transmission, of light of wave length λ , of absorber
Φ	Magnetic flux
ϕ	Potential of velocities
ϕ	Light flux
ϕ	Thermal flux
ϕ	Thermodynamic potential
φ	Geographic latitude (astronomical)
φ	Geographic latitude of a point of earth surface
φ	Coefficient of retardation of discharge
φ	Coefficient of built-up degree
φ	Coefficient of longitudinal buckling
φ	Coefficient of velocity
φ	Initial phase of oscillation
φ	Polar angle (polar coordinates)
φ	Potential of velocities
φ	Difference of phases of voltage and current; phase displacement between current and voltage
φ	Thermodynamic potential
φ	Angular or arc displacement
φ	Angle of internal friction in free-flowing materials
φ	Angle of longitudinal trim
φ	Angle of natural slope
φ	Angle of link rotation
φ	Angle of section rotation
φ	Angle of taper

ϕ	Angle of friction
ϕ	Angle of setting; inclination of blade section relative to plane of rotation
ϕ	Angle of eccentricity of elliptic orbit
ϕ	Latitude of observation point
ϕ	Electric potential
(ϕ)	Initial phase
(ϕ)	Polar coordinates
ϕ_m	Mean geographic latitude (astronomical)
ϕ_0	Initial angle of longitudinal trim
ϕ'	Geocentric latitude
ϕ'	Geocentric latitude of a point of earth surface
χ	Coefficient of propeller moment
χ	Wetted perimeter
(χ_8)	Coefficient of propeller moment
ψ	Flux of electrical induction; flux of displacement electricity
ψ	Function of current
ψ	Magnetic flux
ψ	Internal heat of evaporation, for 1 kilogram
ψ	Initial phase
ψ	General precession
ψ	Angle within plane P formed by the direction of the principal vertical with the axis of X's
ψ	Angle of drifting
ψ	Angle of transversal V
ψ	Angle of travel

ψ	Function of current
ψ_A	Angle within the horizontal plane (T or E) formed by the projection of the principal vertical with the direction toward certain point A
ψ_a	Angle within plane P, formed by the direction of the principal vertical with the direction toward certain point a.
ψ	Angle within the horizontal plane (T or E) formed by the projection of the principal vertical with the axis of X^S .
ψ'	Lunisolar precession
Ω	Full contrast
ω	Cyclic frequency
ω	Area of useful section
ω	Limit of distortion of angle
ω	Solid angle
ω	Angle velocity
ω	Angle velocity of link
ω	Angular frequency
ω	Angular distance from peri helion ^{helion} to ascending node
ω	Angle of lead
ω	Clock movement
ω_{21}	Angular velocity of second link relative to first

3. Cyrillic alphabet

\exists Specific energy of section

4. ~~Numerical Denotations.~~^{No}

1, 2, 3...k,...n	Numbers of links
(1,2), (2,3)	Kinematic couples
(1-2, 2-3...)	Kinematic couples

5. Conventional signs

Ω	Longitude of ascending node
Ω_0	Osculatory element of epoch t_0 (See a_0, e_0, Ω_0)
\star	Point, astronomically determined
α	Point of the vernal equinox
\square	Point of geodesic base-of trigometric grid (accompanied by a mark)
$-o-$	Point, cameral phogrammetric(orientation)
\odot	Point, field photogrametric (orientation)
\odot	Point of relief (accompanied by a mark)
E	Standard exposure of photographic paper

Part III

Mathematic denotations (Basic) Ost 573

(1931 Edition)

I. Denotation of numbers.

The numerals of a multinomial whole number are divided into groups of three from right to left, the groups being separated by intervals; for example: 1 411 312.

A decimal fraction is separated from the whole portion by a comma; in the absence of whole portion its place is taken by a

zero. In the case when the decimal numbers are numerous they are divided into groups of three, from left to right, by means of intervals; for example: 13, 595 93.

In denotations of ordinary fraction there is used a horizontal line; for example: $\frac{7}{22}$

Note: To facilitate printing a slanted line is permissible, if its use is not misleading.

In a mixed number the proper fraction is written immediately following the whole portion; for example $7\frac{2}{3}$

% - percent

‰ - per mill

Positive nature of a number is not denoted by a sign, excepting those cases where this must be indicated; in these instances the sign + (plus) precedes it; for example : + 5.

The negative nature of a number is denoted by its being preceded by the sign - (minus); for example: - 5.

The absolute value of a number is denoted by two vertical lines; for example: | - 5 |

II. Denotation of correlations

=

Equals

≡

Identical or identically equals (used in cases where it is desirable specifically to note identity of both members of the equation)

≠

Is not equal

≈

Approximately equals

<	Is less than
>	Is greater than
\leq	Is less than or equals (is not greater than)
\geq	Is greater than or equals (is not less than)
\ll	Is small in comparison with
\gg	Is large in comparison with

III Denotation of Basic Operations

+	(plus) addition
-	(minus) subtraction
• or \times	Multiplication

The multiplication sign is usually not placed before a number denoted by a letter or before parentheses.

:	or —	Division
a^m		a to the m power
$\sqrt{ }$		Square root of
i		Square root of -1; $i = \sqrt{-1}$
$\sqrt[m]{ }$		m -th root of, with $m \neq 2$
\log_b		Logarithm to the base b

Note: In those instances where it is not necessary to indicate the base, the corresponding subindex of log is omitted.

lg logarithm to the base 10 (common or decimal logarithm)
ln Logarithm to the base $e = 2.718 28\dots$ (natural logarithm)
To denote the power of a logarithm the exponent of the power is written next to the logarithm sign, for example: $\log_b^2 a$.

()	Parentheses	}
[]	Brackets	
{ }	Braces	

enclosing marks

IV Geometric denotations

- \perp Perpendicular to
- \parallel Parallel to
- $\#$ Equal and parallel to
- \sim Similar to
- \triangle Triangle; for example: $\triangle ABC$
- \angle Plane angle; for example: $\angle ABC$
- Note: In those cases where misunderstandings may arise, the angle may be denoted by the more complex sign χ

- $\textcircled{~}$ or
- $\textcircled{~}$ arc: for example: $\textcircled{~} AB$, \widehat{AB}
- $^{\circ}$ Degree } In denoting values of plane angle or arc;
- $'$ Minute } for example: $2^{\circ} 3' 4''$
- $''$ Second }

In the denotation $^{\circ}$ (degree), '(minute) or ''(second)
 relates to a number including a decimal fraction, it is
 written above the comma; for example: $3^{\circ},41$; $6^{\circ}5',27$;
 $8^{\circ}4'2'',9$.

- π Ratio of length of circumference to the diameter;
 $\pi = 3,141 59\dots$

V. Denotations of trigonometric and hyperbolic functions

sin	sine
cos	cosine
tg	tangent
ctg	cotangent
sec	secant
cosec	cosecant

To denote the power of a trigonometric function the exponent of power is written above the sign of this function; for example: $\text{Sin}^2 \chi$.

To denote inverse trigonometric functions the above indicated denotations are preceded by arc (arcus-arc): for example: $\text{arc sin } \chi$ - arc the sine of which is equal to χ .

arcsin	arcsine
arccos	arccosine
arctg	arctangent
arcctg	arccotangent

Hyperbolic functions:

sh	hyperbolic sine
ch	hyperbolic cosine
th	hyperbolic tangent
cth	hyperbolic cotangent

To denote the power of a hyperbolic function the exponent of power is written above the sign of this function; for example: $sh^2 \chi$.

To denote inverse hyperbolic functions the above indicated denotations are preceded by Ar (area-); for example: Arsh γ - an area. The corresponding hyperbolic sine of which is equal to

Arsh	hyperbolic arcsine
Arch	hyperbolic arcosine
Arth	hyperbolic artangent
Arcth	hyperbolic arcotangent

VII Mathematical Analysis Denotations

Constant numbers are denoted mostly by the first letters of the latin alphabet; for example: a, b, c...

Variable numbers are denoted mostly by the last letters of the latin alphabet; for example: x, y, z, u...

Function of one or several variables is denoted by one of the signs: f(), φ (), Φ (), ...

for example: f(x), f(x, y, z):

const constant

∞ infinity

lim limit

\rightarrow approaches: for example: $x \rightarrow a$, $(\lim_{x \rightarrow 0} \frac{1}{x}) = e$

Δ increase of

d differential

δ variation

$f' f'' f''' \dots$ denote successive derivatives of single variable function; for example: $f'(x)$, y' , $f^{IV}(x)$, y^V

Notes:

- If the order of derivative is denoted by a letter or

an arabic numeral, then this letter or numeral is written in parentheses; for example:

$$f^{(3)}(x), f^{(a)}(y).$$

2. To denote first or second derivative in special cases it is permissible to use one or two dots placed above the dependent variable; for example: \ddot{r}, \ddot{x} .

$\frac{d}{dx}$ first derivative of some function of variable x;
for example: $\frac{df}{dx}, \frac{dy}{dx}$.

$\frac{d^n}{dx^n}$ derivative of n-th order, for $n > 1$, of some function of variable x; for example: $\frac{d^2f}{dx^2}, \frac{d^3x}{dx^3}$

$$f'_x, f'_y, f''_{xx}, f''_{xy} \quad \text{derivatives of function } f$$

$\frac{df}{dx}, \frac{df}{dy}, \frac{d^2f}{dx^2}, \frac{d^2f}{dxdy}$ of several variables x, y, z...

\sum Sum; for example $\sum_{k=1}^n u = u_1 + u_2 + \dots + u_n$

\int Integral

\int_a^b Definite integral from lower limit a to upper limit b.

\prod Product: for example: $\prod_{k=1}^n u_k = u_1 u_2 u_3 \dots u_n$

$n!$ factorial; for example: $n! = 1 \cdot 2 \cdot 3 \dots n$

Addendum I.

List of Standards of Letter Denotations Included
in the Compendium, and their Abbreviated Designations

Numbers of Standards	Title of Standards	Abbreviated Designation of Standards
GOST 1075-41	Axes of coordinates and basic denotations used in aerodynamic and hydrodynamic computations in airplane construction	Hydro-aerodynamic computations in aircraft construction
GOST 1493-42	Denotations of basic, general technological quantities (by letters)	General technical quantities
GOST 1494-42	Electrotechnics. Denotation of basic quantities (by letters)	Electrotechnics
GOST 2653-44	Basic concepts and quantities of photographic sensitometry (terminology)	Photographic sensi- tometry
GOST 2899-45	Theory of mechanisms. Basic letter denotations	Theory of mechanisms
OST 2932	Denotation of basic quantities in theoretical mechanics	Theoretical mechanics
GOST 2970-45	Hydromechanics. Basic letter denotations	Hydromechanics

GOST 2971-45	Construction mechanics. Basic letter denotations	Construction mechanics
OST VKS 6128	Hydrotechnics. Denotations of basic quantities	Hydrotechnics
OST VKS 6129	Denotations of basic quantities in sanitation technology of water supply and sewerage	Sanitation technology
OST VKS 6145	Denotations in geometrical optics. Basic	Optics
OST VKS 6146	Denotations in physical optics. Basic	Optics
OST VKS 6203	Basic denotations in astronomy	Astronomy
OST VKS 6261	Denotations relating to measurement of temperatures	Measurement of temperatures
OST VKS 6262	Terms and denotations relating to the field of measurement of liquid pressure, vapor and gas by means of manometers	Measurement of pressure
OST VKS 6345	Advanced geodesy, topography, barometric leveling, gravimetry, cartography	Geodesy and cartography
OST VKS 6350	Basic concepts, terms and denotations in the field of X-rays.	X-rays technology

OST VKS 6394	Denotations of basic quantities of technical thermodynamics	Thermodynamics
OST VKS 6896	Terms, denotations and measurements in the field of ferromagnetic phenomena	Ferromagnetism
OST VKS 6954	International temperature scale	Temperature scale
OST VKS 7082	Denotations relating to the field of terrestrial magnetism	Terrestrial magnetism
OST VKS 7144	Denotations in aerial photography	Aerial photography
OST VKS 7158	Terms, denotations and measurements in the field of time measurement	Measurement of time
OST VKS 7530	Conic connections in machine building	Conic connections in machine building
OST VKS 7637	Light measurement. Basic terms and denotations	Light measurements
OST VKS 7771	Dielectrics. Terms and denotations	Electrotechnics
OST VKS 7772	Heat measurements. Basic concepts, terms and measurements	Heat measurements
OST VKS 7820	Temperature. Measurement of temperature in national economy. Terms and measurements	Measurement of temperature

OST VKS 8822 Constants, radioactive

Radioactive
constants

OST

Conventional letter denotations in
the design of building constructions

90054-40

Building
constructions